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SOPHOMORES.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
FRANK DAVIS ANDRUS..	Cl.....	Washington.
JOHN BATES ARMSTRONG.....	Sc	Detroit.
FRANK LAWTON AXTELL.....	Sc.....	Ann Arbor.
EDWARD IRVING AYER.....	Cl.....	Buffalo, N. Y.
CHARLES ORRIN BAKER.....	Cl.	Decatur.
WILLIS BALL.....	Sc.....	Sutton, Vt.
AUSTIN BARBER.....	Cl.....	Ann Arbor.
CHARLES GIBSON BENNETT.....	Cl.....	Three Rivers.
SOLOMON HIX BETHEA.....	Sc.....	Dixon, Ill.
GEORGE CARLETON BRANCH.....	L.....	Mt Morris, N. Y.
WALTER AUGUSTUS BROOKS.....	Cl.....	Decatur, Ill.
ARCHER HUNTINGTON BROWN.....	Cl.....	Flint.
ROBERT EMMET BUNKER.....	Cl.....	Grass Lake.
JOHN MARSHALL HATCH BURGETT...	Sc.....	Lewiston, Ill.
CHARLES SMITH BURTON.....	Cl.....	Ann Arbor.
HENRY FAIRFIELD BURTON.....	Cl.....	Ann Arbor.
ALEX. MACOMB CAMPAU, JR.....	Cl.....	Detroit.
WILLIAM OSCAR CHILDS.....	Cl.....	El Paso, Ill.
JAMES CHRISTIE.....	Cl.....	Ann Arbor.
CHARLEMAGNE CLARK.....	Cl	Clarkston.
GEORGE COLT, JR.....	Cl.....	Kalamazoo
EDGAR ARTHUR COOLEY.....	Cl.....	Ann Arbor.
HAMILTON DEY.....	L.....	Detroit.
CORNELIUS DONOVAN.....	Sc.....	Ann Arbor.
JOHN FREDERIC DUTTON.....	Cl.....	Ann Arbor.
JAMES PRYOR EDWARDS.....	Sc.....	Houghton.
LEWIS GREEN FARMER.....	Cl.....	Grand Rapids.
WILLIAM HENRY FOX.....	Cl.....	Ann Arbor.
FREDERICK LYMAN GEDDES.....	Cl.....	Adrian.
JEREMIAH HILLEGASS.....	Cl	Huntertown, Ind.
GEORGE FREDERIC HURD.....	Cl.....	Union City.
LOUIS MORRIS IDDINGS.....	L.....	Warren, O.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
LOUIS HENRY JENNINGS	Cl.....	Ionia.
CLARK JONES	Cl....	Ida.
JOSEPH COMSTOCK JONES.....	Cl.....	Ann Arbor.
HIRAM MORSE KEELER.....	Cl.....	Grass Lake.
JAMES HENRY KIRKPATRICK.....	Cl....	Utica, O.
WILLIAM ROSCOLE LEIGH.	L.....	Brownsville, Tenn.
CHARLES BRADLEY LOTHROP.....	Cl.....	Detroit.
HENRY NELSON LOUD.....	Cl.....	Au Sable.
HERBERT HESS LYONS.....	Cl.....	Wyandotte.
JAMES HERBERT MAGUIRE.	Cl.....	N. Y. City.
JOHN JAMESON MAPEL	Cl.....	Mount Union, O.
OMAR DAVID MCCARDLE.....	Cl.....	Lexington.
WILLIAM HENRY MCKEE.....	Cl.....	Grand Rapids.
CHARLES EDWARD MILLER.....	Sc.....	Prairieville, Ill.
GEORGE MILLS.....	Cl.....	Lancaster, Wis.
SAMUEL GEORGE MILNER.....	Cl.....	Alliance, O.
ADDISON MOFFAT.....	Cl	Detroit.
JOHN WELLINGTON MORTON.....	Cl.....	Ann Arbor.
HIRAM MYERS.....	Cl.....	Huntertown, Ind.
JOHN WILLIAM PHELPS.....	L.....	Detroit.
FRANK PIERCE.....	Se.....	Sharpsville, Penn.
SETH COOK RANDALL.....	Sc	Birmingham.
DWIGHT CARVER REXFORD.....	Cl.....	Ypsilanti.
JOHN BARNEY ROSEVELT.....	Se.....	Decatur.
WILLIAM SCHOLL SCOVILL	Se.....	Cleveland, O.
RUSSELL F. TINKHAM.....	Cl.....	Coldwater.
MATTHEW TSCHIRGI.....	Sc.....	Dubuque, Iowa.
CHARLES KING TURNER.....	L.....	Ann Arbor.
WILLIAM THOMAS UNDERWOOD.....	Cl	La Porte, Ind.
HERBERT DELORIN UPDIKE.....	Cl.....	Grass Lake.
HOWARD H. VANVRANKEN.....	Cl.....	Centreville.
GEORGE PHILEMON VOORHEIS.....	Cl.....	White Lake.
MILO WOODRUFF WARD.....	Se.....	Geneseo, Ill.
WILLIAM ANDREW WARNER.....	Cl.....	Detroit.
J. BURKITT WEBB.....	Se.....	Philadelphia, Pa.
THEODORE BOOTH WILLSON.....	Cl	Grand Rapids.
ROLAND WOODHAMS.....	Cl.....	Ontario.
JAMES ALEX. WOODS.....	Cl.....	Lewisburg, Tenn.
ROBERT SIMPSON WOODWARD	Sc.....	Rochester.
CHARLES CARTER WORTHINGTON.....	Sc.....	Ilomer.

FRESHMEN.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
BENJAMIN FRANKLIN ADAMS.....	L.....	Ann Arbor.
HENRY AUSTIN ADAMS.....	Cl.....	Marshalltown, Iowa.
JOHN WEBER ADDAMS.....	L.....	Cedarville, Ill.
NATHANIEL BACON.....	Cl.....	Niles.
FRANK WEBSTER BALL.....	L.....	Grand Rapids.
ERASTUS ALBERT BARNES.....	Cl.....	Owosso.
JAMES POWER BEAN.....	Sc.....	Conneaut, O.
WILLIAM BENSON.....	Cl.....	Detroit.
ARTHUR GILES BISHOP.....	Sc.....	Flint.
FRANK BLISS.....	L.....	Ann Arbor.
ELIOT HUNT BRUSH.....	L.....	Detroit.
ALFRED ERSKINE BRUSH.....	L.....	Detroit.
CLARENCE BURTON.....	Sc.....	Hastings.
WILBUR BUZZELL.....	Cl.....	Holly.
WILLIAM HENRY CARRIER.....	Cl.....	Flint.
WILLIAM FLINT CLARKE.....	L.....	Flint.
CALVIN CLAY COCHRANE.....	Sc.....	Orrisville, Tenn.
HENRY REED COCKER.....	Sc.....	Ann Arbor.
JAMES AMBROSE COYLE.....	Cl.....	Ann Arbor.
HERBERT ERASTUS DAVIS.....	Cl.....	Marshall.
ROMEO L. DEPUY.....	Sc.....	Wabash, Ind.
CHARLES LEANDER DOOLITTLE.....	Se.....	Ontario, Ind.
SAMUEL TOWNSEND DOUGLASS.....	L.....	Ann Arbor.
SIDNEY CORNING EASTMAN.....	Cl.....	Chicago, Ill.
JAMES H. EMERY.....	L.....	Ann Arbor.
THOMAS EMERY.....	Sc.....	Ann Arbor.
HENRY WATERMAN FAIRBANK.....	L.....	Flint.
FRANK WARD FARR.....	L.....	Clinton, Iowa.
EDWIN JACOB FERDON.....	Sc.....	Ann Arbor.
JOHN HENRY FLAGG.....	Sc.....	Pentwater.
RUFUS FLEMING.....	Cl.....	West Lebanon, Ind.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
WILLIAM GLOVER GAGE.....	Cl.....	East Saginaw.
ELIAS DURFEE GALLOWAY.....	L.....	Howell.
GEORGE ADAMS GARY.....	Cl.....	Eaton Rapids.
HERSCHEL ROBERT GASS.....	Cl.....	Washington.
MARSHALL THOMAS GASS.....	Cl.....	Washington.
HENRY WISEWELL GELSTON.....	Cl.....	Ann Arbor.
CLARK HOUGH GLEASON.....	L.....	Oxford, N. Y.
JAMES RIDDLE GOFFE... ..	L.....	Kenosha, Wis.
WILLIAM WALLACE GRANGER.....	L.....	Columbus.
ROBERT SPEER GROSS.....	Cl.....	Brunswick, Me.
FRANK WARD GUERNSEY.....	Se.....	Janesville, Wis.
WALTER SCOTT HAINES.....	Se.....	Chicago, Ill.
RICHARD DESMOND HARRISON.....	Se.....	Granville, Ill.
HENRY MARSH HASKELL.....	Cl.....	Marshall.
ROBERT HAYES.....	Se.....	Freeport, Ill.
FRANK CLARK HAYMAN.....	Cl.....	Ann Arbor.
WAYNE HAYMAN.....	Cl.....	Ann Arbor.
WILLIAM JOHN HEAD.....	Se.....	Kenosha, Wis.
JOHN MAYNARD HEMINGWAY.....	L.....	Ann Arbor.
EDWARD CHAUNCY HINMAN.....	Se.....	Battle Creek.
GEORGE HIRAM HOPKINS.....	Cl.....	White Lake.
WILLIAM BREWSTER HUNT.....	Cl.....	Niles.
WILLIAM ARTHUR INGLEDEW.....	Se.....	South Saginaw.
ALBERT POOLE JACOBS.....	Cl.....	Detroit.
GEORGE STUART JOHNSON.....	Se.....	Grand Rapids.
CLARENCE SCHUYLER JOY.....	Cl.....	Marshall.
CHARLES BUTLER KEELER.....	L.....	Clinton, Iowa.
CHARLES EDWARD KING.....	Cl.....	Ypsilanti.
LOYAL EDWIN KNAPEN.....	Cl.....	Hastings.
JOSEPH MARVIN LEWIS.....	Se.....	Jackson.
WILLIAM DAYHARSH LEWIS.....	Se.....	Flint.
JOHN ALEX. McELDOWNEY.....	Cl.....	Bloom, Ill.
ADDISON MILLARD.....	Cl.....	Adrian.
IRVING NELSON MITCHELL.. ..	Se.....	Niles.
ALFRED HENRY NELSON.....	L.....	Oroville, Cal.
ADELBERT L. NOBLE.....	Cl.....	Ann Arbor.
JUDSON GREGORY PATTENGILL.....	Cl.....	Hudson.
SHERWOOD RAYMOND PEABODY.....	Cl.....	Detroit.
HERBERT WILLIAM PEARSON.....	Se.....	Ferrysburg.
JOSEPH WILLIAM PERKINS.....	Se.....	Ann Arbor.
JOHN QUINCY PRAY.....	Se.....	Portage, O.
DANIEL HERBERT ROE.....	L.....	Madison, O.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
HOMER REED.....	Cl	Ann Arbor.
FRANK WESLEY RORKE.....	Sc.....	Pecatonica, Ill.
MARSHALL KEY ROSS.....	L.....	Perrysburg, O.
HARRY RUSSELL.....	Cl.....	Detroit.
GEORGE RUST.....	Sc.....	East Saginaw.
CLARK BATES SAMSON.....	L.....	De Kalb, Ill.
WILLIAM SMITH SHEERAN.....	Cl.....	Detroit.
CALEB BOYER SIPPLE, JR.....	Sc.....	Niles.
VOLNEY MORGAN SPALDING.....	Cl.....	Ann Arbor.
AUGUSTUS J. C. STELLWAGEN.....	Cl.....	Wayne.
CLARENCE MOORE STEPHENS.....	Sc.....	Mount Clemens.
CHARLES CUMMINGS STEWART.....	Cl.....	Ann Arbor.
FRANK HERBERT TABOR.....	Cl.....	Prairie du Lac, Wis.
ERNEST TAYLOR TAPPEY.....	Cl.....	Indianapolis, Ind.
AARON COMFORT TAYLOR.....	L.....	Tecumseh.
EDWARD ERNEST THAYER.....	Cl.....	Flint.
GEORGE MONROE TINDALL.....	L.....	South Grove, Ill.
CYRUS OBADIAH TOWER.....	L.....	Oxford, N. Y.
FRANK HALL TUTHILL.....	Cl.....	Ann Arbor.
ALEX. GRISWOLD TYNG, JR.....	Sc.....	Peoria, Ill.
CHARLES MCKINSTRY VAN CLEVE.....	Cl.....	Ypsilanti.
WILLIAM VOIGT, JR.....	Sc.....	Detroit.
FRANKLIN HIRAM WALKER.....	Sc.....	Detroit.
JUNIUS BRUTUS WALKER.....	L.....	Richmond, Ky.
CHARLES ASHLEY WARREN.....	L.....	Quincy, Ill.
CHARLES RUSSELL WELLS.....	Cl.....	Ann Arbor.
JOHN L. WHITE.....	L.....	Milburn, Ill.
WILLIAM BROWN WILLIAMS.....	Cl.....	Hillsville, Pa.
JOSIAH WYATT WILLIS.....	Sc.....	Ann Arbor.
CHARLES LYMAN WILSON.....	Cl.....	Port Byron, N. Y.
ORRIN SMITH WILSON.....	Sc.....	Sturgis.
CHARLES MCALISTER WINCHELL.....	L.....	Ann Arbor.
CHARLES MARIUS WOODRUFF.....	L.....	Ypsilanti.
HENRY V. WORLEY.....	Sc.....	Lewiston, Ill.
FRANK VESPASIAN YOUNG.....	Sc.....	Hastings.
KIMBAL L. YOUNG.....	Cl.....	Mattoon, Ill.
JAMES WILLIAM YULE.....	Sc.....	Milburn, Ill.

Students in Mining Engineering.

SENIORS.

<i>Name.</i>	<i>Residence.</i>
CLARENCE MORTON BOSS	Ypsilanti.
WILLIAM JAMES WATERS.....	New Bedford, Mass.

Students Pursuing Selected Studies.

<i>Name.</i>	<i>Residence.</i>
SAMUEL HARRISON AIKIN.....	Tekonsha.
WELLER BISHOP.....	Hillsdale.
JONATHAN EDWARD BISSELL	St. Clair.
JAMES HARRISON BLANCHARD.....	Ann Arbor.
ALBERT AUGUSTUS BORCHERS.....	Hamburg.
GEORGE WRIGHT BUCKLEY	Battle Creek.
JAMES MADISON BURBRIDGE.....	Covington, Ky.
THOMPSON BURNAM, JR.....	Richmond, Ky.
DEWITT CLINTON CHALLIS.....	South Bombay, N. Y.
ETHEL BRIGHT CLINGMAN.....	Cedarville, Ill.
JOHN D. COOPER.....	Zanesville, O.
ARTHUR CORSE.....	Plymouth, Ind.
JOHN HENRY DARLING.....	Lake Ridge.
JOHN HENRY DEVOE.....	Dwight, Ill.
GULIC ERDALL.....	Christiana, Ill.
JAMES WILLIAM FERRY.....	Chicago, Ill.

<i>Name.</i>	<i>Residence.</i>
BYRON ALFRED FINNEY.....	Hudson.
JOHN FITCH, JR.....	Toledo, O.
MORRIS BISHOP FOSTER.....	Keeler.
RILEY FOSTER.....	Keeler.
WILLIAM JAMES HERDMAN.....	Zanesville, O.
HENRY Hiestand, JR.....	Mount Morris, Ill.
WILLIAM HENRY HINMAN.....	Battle Creek.
WARREN AUSTIN HOSMER.....	Jackson.
CHARLES LESTER HOUSEMAN.....	Laporte, Ind.
SAMUEL ROGERS HURFORD.....	Ottawa, Ill.
EDWARD HASKELL JONES.....	Jackson.
MILO CORNELIUS JONES.....	Fort Atkinson, Wis.
WALTER MONROE KEENAN.....	Le Roy, Ill.
MARTIN CROCKER KELLEY.....	Ann Arbor.
CHARLES LLEWELLYN KENNEDY.....	Sylvania, O.
HARVEY ELIAS LEACH.....	Smithfield, O.
GILBERT LIDDLE, JR....	Colon.
GEORGE WHITE MARSTON.....	Fort Atkinson, Wis.
JOHN AUGUSTUS MITCHELL.....	Ann Arbor.
JAMES SMITH NOTTINGHAM.....	Springfield, Ill.
MASCLET SLEEPER ORDWAY.....	Fort Covington, N. Y.
DAVID LUTHER ORR.....	Lewisburg, Tenn.
CHARLES ALEX. PHILLIPS.....	Dayton, O.
STEPHEN PRIEST.....	Plympton, O.
SAMUEL BRITTON PRICE.....	Branchville, N. Y.
WILLIAM HENRY SCHOCK.....	Prairieville, Ill.
BARTON SMITH.....	Channahon, Ill.
EDWIN SQUIER.....	Aurora, Ill.
RANSOM JAMES THACKER.....	Oxford, Miss.
EUGENE WYMAN TRASK.....	Caledonia, Minn.
CHARLES CUTTER TUCKER.....	Union City.
STEPHEN HIGGINSON TYNG.....	Farmington, Ct.
ISAAC CLINTON WADE.....	Watseka, Ill.
IRWIN SIMPSON WALKER.....	Pendleton, Ind.
ROBERT GALT WALLACE.....	Sterling, Ill.
CHARLES ALBERT WHITTIER.....	East Saginaw.
JOSEPH BRADFORD WHITTIER.....	East Saginaw.
JOHN R. WILLIAMS.....	Detroit.
EDWARD WHITE WOOD.....	Owensboro, Ky.
JAMES ALEX. WOODS....	Lewisburg, Tenn.
FRED WILLIAM VON SCHIRADER.....	Bellville, O.

Students in Higher Chemistry.

[This list includes only those who have pursued a course of Higher Chemistry since the last Catalogue was published, and whose names are not published elsewhere. It excludes those Medical Students who pursued the course before the last Medical year was closed, and those Literary Students who pursued the course before the last Literary year was closed, and embraces only those who have studied it since, and whose names are not published in another part of this Catalogue. The whole number that have taken a regular course of practical and theoretical study of Chemistry in the Laboratory, during the year, is two hundred and eighteen.]

<i>Names.</i>	<i>Residences.</i>
GEORGE F. ACERS.....	Manchester, Iowa.
ADAM C. BISSIKOMER.....	Greenville.
JOSEPH W. BRICKER.....	Smithville, Ohio.
BENJAMIN F. BRIGGS.....	Ann Arbor.
IRVING P. BOYD.....	Monroe.
FRANK E. CORBIN.....	Schoolcraft.
WILLIAMSON W. COX.....	Ypsilanti.
JESSE EDWARDS.....	Plainfield, Ind.
WILLIAM J. ENGLISH, M. A., LL. B....	Kenosha, Wis.
ABRAM V. FERGUSON.....	Washingtonville, N. Y.
EVERETT W. FISH.....	Detroit.
HENRY M. GOODELL.....	Ann Arbor.
OTIS COE JOHNSON, B. A.....	Kishwaukee, Ill.
DEWITT C. JUSTICE, LL. B.....	Lafayette, Ind.
JOHN LEESON.....	Springfield, Ontario.
WILLIAM MCKIMMIE.....	Detroit.
HERMAN C. MARKHAM.....	Ann Arbor.
JOHN MERRILL, M. D.....	Harmony, Me.
WILLIAM B. MORGAN, M. A.....	Richmond, Ind.
WESLEY NIXON.....	Leoni.
DENHAM B. PALMER, M. D.	Locke, N. Y.
ARTHUR ROGERS.....	Macon, Mo.
JOSIAH T. SCOVELL, B. A., M. D.....	Central City, Col.
JUSTIN A. TYLER.....	Napoleon, Ohio.

Students in Pharmacy.

<i>Names.</i>	<i>Residences.</i>
JOHN C. ALLEN.....	Maysville, Ky.
EDMUND M. BLOOMFIELD, M. D.....	Eaton, Ohio.
CHARLES AUGUSTUS BOEHME.....	Battle Creek.
EUGENE PHILIP BOISE, B. A., M. D....	Oberlin, Ohio.
WILLIAM A. BUCHANAN.....	Lowell, Ohio.
JOHN C. W. CAREY.....	Atlanta, Iowa.
THEODORE GIBBS CASE.....	Newton, N. J.
ALBERT CYRUS CURTIS.....	Ashland, Ohio.
JOHN B. DELBRIDGE.....	Albion.
ORLANDO A. DIMMICK.....	Claridon, Ohio.
WM. BECKETT FALCONER.....	Hamilton, Ohio.
CHARLES FORD.....	Grass Lake.
JAMES MITCHELL FORD, M. D.....	Wabash, Ind.
ARTHUR C. GOWER.....	Ann Arbor.
ORVILLE W. GREEN.....	Ann Arbor.
PETER NOBLE HAGLE, M. D.....	Almont.
SAMUEL E. HEDGES.....	Ann Arbor.
LE GRAND HALE HOLLON, M. D.....	Sand Bank, N. Y.
CORNELIUS C. HOWELL.....	Watertown, N. Y.
JOHN WESLEY JARVIS.....	Erie, Pa.
JOHN ROBERT JONES.....	Ann Arbor.
GEORGE HENRY LOHMAN.....	Kendallville, Ind.
WILLIAM FRANCIS MALTBIE, M. D.....	Springboro, Ohio.
OTIS ASHER MERRELL.....	Owosso.
CHARLES WARREN MILLS.....	Grand Rapids.
MARION C. MOORE.....	Albion.
JAMES ROBERT MOSS.....	New Franklin, Mo.
JAMES CLINTON NEAL, M. D.....	Marion, Ind.
ISAAC NEWTON NEWMAN.....	Portland.
WILLIAM E. NEWTON.....	Ann Arbor.

<i>Name.</i>	<i>Residence.</i>
JOHN FRANCIS OAKS, M. D.....	Rochester. N. Y.
SAMUEL V. ROMIG.....	Ann Arbor.
WILLIAM H. ROUSE, M. D.....	Detroit.
ROBERT W. STAPLETON.....	Fayette, Mo.
MERARI B. STEVENS, M. D.....	Byron.
ALBERT TAYLOR.....	Urbana, Ill.

DEPARTMENT

— OF —

Medicine and Surgery.

FACULTY.

ABRAM SAGER, M. A., M. D.,
DEAN.

ZINA PITCHER, M. D.,
EMERITUS.

ABRAM SAGER, M. A., M. D.,
SILAS H. DOUGLASS, M. A., M. D.,
ALONZO B. PALMER, M. A., M. D.,
CORYDON L. FORD, M. A., M. D.,
ALBERT B. PRESCOTT, M. D.,
ALPHEUS B. CROSBY, M. A., M. D.,
HENRY S. CHEEVER, M. A., M. D.,
PRESTON B. ROSE, M. A., M. D.,
GEORGE E. FROTHINGHAM, M. D.,

Students in Medicine.

<i>Name.</i>	<i>Residence.</i>	<i>Preceptor.</i>
EDWIN K. ABBOTT, A. B.	Hillsdale	Johnson & Brewer.
GEORGE W. ADAIR	Utica	William Brownell.
ALBERT W. ADAMS	Charlotte	Faculty.
SANFORD O. ALFORD	Mazon, Ill.	Faculty.
CHARLES AMBROOK	Eagle	H. S. Cheever.
LYMAN ARMENTROUT	Mount Vernon, O.	J. W. Russell.
GEORGE D. ARNOLD	Loysville, Pa.	B. P. Hook.
SEWELL P. AYER	Plymouth	R. Haynes.
SMITH BAKER	Holland Patent, N. Y.	D. A. Crane.
THOMAS A. BARCLAY	St. Catherines, Canada	William Newman.
HIRAM A. BARBER	Lansing	D. A. Davis.
FRANK H. BARR	Ludlowville, N. Y.	D. F. Barr.
JUDSON BEACH	Montrose, Pa.	G. W. Beach.
JAMES M. G. BEARD	Attica, Ind.	Joseph Jones.
CASPER V. BEEBE	Ovid	Praetitioner.
GEORGE M. BELL	Benton Harbor	John Bell.
GEORGE F. BENNET	Bridgewater, Ohio	R. F. Lampson.
ANDREW C. BERGEN	Vinton, Iowa	C. C. Griffin.
JOHN F. BERRINGER	Valparaiso, Ind.	J. F. McCarthy.
ERASTUS BERRY	Salem	Geo. Pray.
WILLIAM G. BEYERLY	Portsmouth, Ohio	Faculty.
SAMUEL H. C. BIXLER	Carlisle, Pa.	J. J. Zitzer.
THOMAS S. BLACKBURN	Port Burwell, Canada	C. S. Vail.
ALBERT F. BLAKESLEE	Saline	D. Post.
IRVING R. S. BOARDMAN	Elmira, N. Y.	F. H. Squire.
GEORGE D. BOON	Monmouth, Ill.	Webster & Crawford.
MARCENA BOSS	Otiseo	Faculty.
DARIUS BOUGHTON	West Novi	E. Hall.
WILLIAM W. BOWES	Milton, Canada West.	W. H. Street.
WILLIAM BOWMAN	Ripley, Ohio	J. L. Wylie.

<i>Name.</i>	<i>Residence.</i>	<i>Preceptor.</i>
ROBERT E. BOYD.....	De Witt, Iowa.....	J. H. Boyd.
ROBERT H. BOYD.....	Ottawa City, Canada..	O. C. Wood.
GEORGE W. BRANDON.....	Dixon, Ill.....	Charles Hunt.
HENRY W. BRAZIE.....	Lapeer.....	A. H. Thompson.
WALLACE A. BRIGGS..	Wadsworth, Ohio....	Faculty.
GEORGE W. BRISTLINE....	Andersonburg, Pa....	G. W. Mitchell.
SAMUEL BROUGH.....	Germantown, Ky.....	E. C. Dimmitt.
HERMAN E. BROWN.....	Pinckney... ..	J. B. Silsby.
JOSEPH E. BROWN.....	McConnellsville, Ohio	J. H. Brown.
ALFRED BUCHAN.....	Union Grove, Wis....	Newell & Son.
WILLIAM A. BUCHANAN...	Lowell, Ohio.....	C. Buchanan.
JAMES BURKEY.....	Whiehsville, Ohio....	Dr. Myers.
CORNELIUS W. BURROWS..	Houghton	W. W. Perry.
HENRY CABOT.....	Hastings.....	Charles Russell.
ARCHIBALD B. CAMPBELL..	Belmont, Ontario....	J. B. Campbell.
WILLIAM W. CAMPBELL..	Belmont, Ontario....	J. B. Campbell.
MALCOLM CAMPBELL.....	Usburne, Ontario....	Faculty.
WILLIAM R. CAMPBELL....	Webster	W. M. Campbell.
JAMES J. CANEDY.....	Heath, Mass.	W. S. Severanec.
CALVIN A. CASE.....	St. Charles.....	R. S. & H. Case.
GIDEON S. CASE.....	Lansing	R. S. & H. Case.
MARVIN T. CASE.....	Attica, Ind.....	Joseph Jones.
JOHN A. W. CAREY.....	Lewis, Iowa	Faculty.
ROBERT B. CAREY.....	West Vincent, Pa ...	N. S. Marshall.
THOMAS J. CARPENTER....	Defiance, Ohio.....	T. H. Ashton.
JED. S. CASWELL.....	Milton, Vt.....	L. J. Dixon.
GEORGE E. CATLIN.....	Wellsborough, Pa....	Wm. H. Borden.
SAMUEL W. CHANDLER....	Clinton	A. W. Alvord.
ELISHA F. CHESTER.....	Grand Rapids.....	Z. E. Bliss.
SAMUEL CHAPIN, Jr	Ann Arbor	Faculty.
FREDERICK C. CHURCHILL,	Omaha, Neb	C. H. Penny.
GEORGE H. CLARK.....	Dowagiac.....	Dr. Daniels.
CHARLES L. CLEMENT....	Greenville.....	L. B. Lester.
MORRIS B. COLGROVE.....	Ann Arbor... ..	Faculty.
HENRY E. COLTON.....	Buffalo, N. Y.....	Faculty.
HENRY H. COOK.....	Mason.....	E. Cook.
ADELBERT F. COOPE.....	Flushing	Dr. B. Hurd.
JOHN W. COOMBS.....	Peotone, Ill.....	H. Folke.
JOHN L. CONNOR.....	Lebanon, Mo.....	James McComb.
HIRAM CONRAD.....	Minerva, Ohio..	Jas. Westfall.
CHARLES T. COREY.....	Patch Grove, Wis....	J. B. Corey.
JOSEPH P. COUSE.....	Bramhville, N. J.....	Joseph Hedges.

<i>Name.</i>	<i>Residence.</i>	<i>Preceptor.</i>
SAMUEL COVERT, B. A....	Pontiac.....	Faculty.
JOSEPH H. COWELL.....	Peoria, Ill.....	Dr. Johnson.
EDWARD T. CRAFTS.....	Joliet, Ill.....	C. A. Williams.
HORATIO N. CRAM.....	Papakating, N. J.....	M. Sampson.
NORMAN J. CRANMER.....	Arlington.....	W. H. H. Jackson.
JOE P. CREVELING.....	Bethlehem, N. J.....	J. C. Stewart.
GEORGE A. CROOKER.....	Simcoe, C. W.....	Palmer & Cheever.
F. FRED. CROUCH.....	Tecumseh.....	J. R. Hall.
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JOHN WILSON SMITH, B. S., Att'y.....	Rochester, Ind.
PALMER WORTH SMITH, B. A.....	Oxford, O.
THOMAS CUTHBERT SNODGRASS.....	Pittsburg, Pa.
JOHN L. STARKWEATHER, Att'y.....	Romeo.
MAURICE STARNE.....	Springfield, Ill.
JOSEPH B. STEERE, B. A.....	Palo.
JACOB L. STEINMETZ, B. A.....	Lancaster, Pa.
WALTER STEPHENSON.....	Greenville, O.
ROSS CONWAY STONE.....	Anderson, Ind.
ALBERT MONTGOMERY SWEETLAND.....	Newark, Ill.
RANDOLPH SINKS SWING.....	Bethel, O.

<i>Name.</i>	<i>Residence.</i>
DEWITT HOLBROOK TAYLOR.....	Detroit.
PARKE EDWIN TEMPLE.....	Bloomington, Ill.
DEXTER LADD THOMAS.....	Newville, Ind.
FRANK THOMAS.....	Wyoming, Ill.
JOHN DINWIDDIE THOMAS.....	Onarga, Ill.
ARCHIBALD ELIAS THRASHER.....	Lawrence, Kan.
PLINY HUDSON VAN BUREN.....	Detroit.
JAMES VAN KLEECK.....	Monroe.
CHARLES ELIOTT VROOMAN.....	Chicago, Ill.
JACOB HENRY WALLIKER.....	Prineeville, Ill.
GEORGE WASHINGTON WANNAMAKER.....	Belleville, Ontario.
EDGAR JEROME WEBSTER.....	Hudson.
FRED FOX WENDELL.....	Fort Plain, N. Y.
JAMES HENRY WILLIAMS.....	South Bend, Ind.
ZENAS LEANDER WISE.....	Youngstown, O.
AMOS WOLFE, B. A.....	Yellow Springs, O.
ISAAC WILLIAM WOOD, B. A., Att'y.....	Grand Rapids.
JAMES CORYDON WOODBURN.....	Rockford, Ill.

JUNIORS.

<i>Name.</i>	<i>Residence.</i>
FELIX GRUNDY ALBIN... ..	Greencastle, Ind.
FRANK BELL ALLEN.....	Lafayette, N. J.
ISAAC ROLLIN ANDREWS, B. S.....	Baraboo, Wis.
JOSIAH JAY ANDREWS.	Clyde, Ill.
WILLIAM OSCAR AXFORD.....	Rochester.
JUSTIN BADGEROW.....	Malvern, Ontario.
LORENZO MOSES BARRETT.....	Galt, Ill.
JAMES BURRILL BEALS..... .	Feontenae, Minn.
FERDINAND BOOKWALTER.....	Rob Roy, Ind.
MELVIN MORELLI BOOTHMAN.....	Bryan, O.
BENJAMIN FRANKLIN BOYLAN.....	Ann Arbor.
HENRY ALLEN BRISCOE.....	Sullivan, Ill.
LEVANT BROWN.....	Coldwater.
GEORGE EDWIN BULLOCK.....	Rockport, Ind.
WALTER BALFREY BUTT.....	Poplar Bluff, Mo.

<i>Name.</i>	<i>Residence.</i>
FRANK BUTTERWORTH.....	Morristown, N. J.
FRANK WILBUR BURNETT.....	Litchfield, Ill.
VICTOR COUSIN BURNHAM.....	Bay City.
FRANK SYLVESTER BURTON.....	Jerome.
GUSTAVUS HERVEY BRYANT.....	Lake Mills, Wis.
WILLIAM BYMES.....	Pittsburg, Pa.
WASHINGTON HILLERY CAMPBELL.....	Mason City, Ill.
GEORGE WILLIAM CASWELL.....	Birmingham.
HENRY ALLEN CHANEY, B. A.....	Detroit.
EDSON EDWIN CHAPMAN.....	Edenburg, O.
HENRY MARSH CLARK.....	Monroe.
JOHN BRYSON CLELAND.....	Janesville, Wis.
EDWARD BEACH CLEMENTS.....	Ada.
PHILIP MACY COFFIN.....	Ravenna, O.
GUY WARREN COLE.....	St. Helena, Cal.
JAMES MADISON COLEMAN...	Morgantown, Ind.
JEROME COLEMAN.....	Decatur.
LEWIS COLLINS.	Van Wert, O.
GEORGE WASHINGTON COOMER.....	Troy.
EMIR J. COON.....	Elyria, O.
LEWIS COON.....	Merrimack Point, Ill.
EDWIN FOREST CONLEY.....	Howell.
RYAN BARBER COWLES.....	Battle Creek.
ANDREW RILEY CRAMER.	Grand Rapids.
JOHN B. CREASEY.....	Three Rivers.
JAMES HART CREW.....	Damascusville, O.
WILLIAM VAN BUREN CROSKEY.....	Germana, O.
JACOB REESE DAVIES, B. A.....	Granville, O.
JAMES MILTON DAVIS, JR., B. A.....	Climax Prairie.
NELSON DE LONG.....	Maple Rapids.
WARREN CHARLES DEWEY.....	Cambridge.
R. SPENCER DILLS.....	Urbana, O.
DENNIS DONOVAN....	Des Moines, Iowa.
ANDREW J. DOVEL, JR.....	Pickerington, O.
SAFFORD S. DUNNING.....	Trenton.
GREGORY BYRON DURGAN.....	Bradford, Vt.
ORLETUS PALMER EATON.....	Kalamazoo.
WILLIAM ROBERT EDGAR, B. S... ..	Lincoln, Ill.
JOHN ALLISON EDGET.....	East Saginaw.
EMERSON H. EGGLESTON.....	Cleveland, O.
OLIVER PERRY ERGENBRIGHT.....	Edenburg, Ind.
JAMES BOYNTON ERWIN.....	Bethany, N. Y.

<i>Name.</i>	<i>Residence.</i>
ROBERT EWING.....	Millbourn, Prov. Quebec
CHARLES B. FALLEY.....	Lancaster, Ill.
LOCKHART BROOKS FARRAR, M. D.....	Paxton, Ill.
JAMES RILEY FLANDERS.....	Plainfield, Ill.
EVERETT FLETCHER.....	Lancaster, N. H.
FRANCIS MARION FORT.....	Monmouth, Iowa.
JOHD DALTON FRAZIER.....	Kirkland, Ind.
ALMON BRUCE FRENCH.....	Clyde, O.
MICHAEL GIBNEY	Northfield.
LESTER O. GODDARD, B. A.....	Adrian.
LUCIUS EBENEZER GOULD.....	Owosso.
WILLIAM DANIEL GOULD.....	Cabot, Vt.
WILLIAM FLAVIUS LEICESTER HADLEY....	Collinsville, Ill.
CHARLES SIDNEY HARTWELL.....	West Town, N. Y.
THOMAS WILLIAM HEATLEY.....	Pittsburgh, Pa.
SAMUEL SINN HERR.....	Salem, O.
ALBERT HIERSTAND.....	Copley, O.
CHARLES CARROLL HICKEY.....	Howell.
ROBERT JEROME HILL.....	Murdoek, O.
LUCIUS PERRY HILLS.....	Buffalo, N. Y.
MOSES HOLBROOK.....	Lancaster, O.
OWEN THADEUS HOLT.....	Vine Grove, Texas.
JOHN MARION HOWARD, B. A.....	Berlin, Ill.
MICHAEL DANIEL HOWARD.....	Manchester.
NEWTON JASPER HUBBARD.....	Port Byron, Ill.
ANDIE CLINTON HULBURD.....	Olivet.
EDWARD HUTCHINSON.....	Adrian.
GID SPRAGUE IVES....	Newburg.
ROBERT STUART JARVIS.....	Bowmanville, Ontario.
AUGUSTUS JEWELL.....	Dowagiac.
GORDON J. KEENEY.....	Erie.
HUGH CLINTON KELLMAN.....	Cedar Hill, O.
HORACE KENDALL.....	Brandenburg, Ky.
WILLIAM FREDERICK KENFIELD.....	Hastings.
LEWIS L. KETTLE.....	Lafayette, Ind.
EDWARD HALE LAMME.....	Springfield, O.
ALONZO MARK LEFFINGWELL.....	Henderson, N. Y.
OWEN GLENDOWER LOVEJOY.....	Princeton, Ill.
JACOB LOWELL, JR.....	Stillwater, Minn.
CHARLES BENEDICT LUMLEY.....	Detroit.
CARLETON MOREHOUSE LYMAN.....	Buffalo, N. Y.
ROBERT LEWIS LYONS, B. A.....	Oxford, O.

<i>Name.</i>	<i>Residence.</i>
CLAY HARDIN LYNCH.....	Edwardsville, Ill.
ANDREW JACKSON MACK, B. A.....	Mansfield, O.
JAMES Y. MARSHALL.....	Charon, Pa.
THOMAS ALEX. MARSHALL.....	Charleston, Ill.
SAMUEL ALLEN MARTIN.....	Maysville, O.
WILLIAM COTTON MAYBERRY.....	Detroit.
JOHN LORENZO MERRILL.....	De Witt, Iowa.
CHARLES MCANLOFF.....	Houghton.
GEORGE WASHINGTON MCBRIDE.....	Deerfield.
JAMES EDWARD MCBRIDE, B. S.....	Toledo, O.
JAMES STRATTON MCKAY.....	Espyville, Pa.
WILLIAM MEREDITH MCNAMEE.....	Baltimore, O.
JAMES THOMAS MOORE.....	Lebanon, Mo.
JOSEPH ROBERTS MORRIS.....	Atlantie, Iowa.
FRANK L. MULHAUSER.....	Cincinnati, O.
MARTIN MORRIS.....	New York City, N. Y.
STEPHEN WILSON MORRIS.....	Ironton, O.
ALBERT AUGUSTUS NILES.....	Morrisville, Vt.
RICHARD SAMPSON NORVAL.....	Midway, Ill.
THEOPHILUS LINCOLN NORVAL.....	Midway, Ill.
JAMES WILLIAM OGDEN.....	Milford, Ky.
GEORGE BENTON OGLEVIE.....	Cascade.
CHRISTOPHER MARCUS OLDFIELD.....	Port Sanilac.
JOSEPH PAINTER, JR.....	Kittanning, Pa.
WALTER HORATIO PALMER.....	Ann Arbor.
GEORGE NEWMAN PARKER.....	Robinson, Ill.
CHARLES WEBB PECK.....	West Winsted, Conn.
HENRY SOUTHERN PETTINGILL.....	Venice, Ill.
SAMUEL PIPER.....	Holderness, N. H.
MARK MELVIN POWERS.....	Grand Rapids.
ORLANDO WOODWORTH POWERS.....	Pultneyville, N. Y.
CHARLES IRWIN PULLIAM.....	Auburn Ill.
WILLIAM JOHN RAINEY.....	York.
WILLIAM ALFRED RANDOLPH.....	Emporia, Kan.
ERWIN PAUL RAYMOND.....	Toledo, O.
ROBERT EBER REESE.....	West Rushville, O.
JOSEPH DEASE RONAN.....	Monroe.
LUCIUS RUSSELL.....	Hastings.
JAMES FREEMAN SALISBURY.....	St. Paul, Minn.
THEODORE LEHURAY SCHICK.....	Prairieville, Ill.
FRANK TAYLOR SEELEY.....	Flint.
ISAAC CASPER SEELEY, B. S.....	Plainwell.

<i>Name.</i>	<i>Residence.</i>
JOHN WELLER SHEPHERD.....	Ironton, Mo.
IRA PRICE SHISSLER, Att'y....	Detroit.
LUTHER SHORT, B. S.....	Indianapolis, Ind.
QUINCY SMITH.....	Owosso.
HORACE GREELEY SNOVER, B. A.....	Romco.
EDWIN SPENCER.....	Pike, N. Y.
FREDERICK SAMUEL STAFF.....	Raysville, Ind.
MORTIMER HIRAM STANFORD.....	Trenton.
SAMUEL THOMAS STAPLETON.....	Parkersburg, W. Va.
VALENTINE STEELE.....	Ann Arbor.
MILTON SHELDON STEWART.....	Milan, O.
THEODORE ALONZO STEWART.....	South Whitney, Ind.
FRANCIS STOFFLET.....	Seigfrieds Bridge, Pa.
JOHN THOMAS STRINGER.....	Kokomo, Ind.
JOHN SMITH STULL.....	Russell Mills.
CHARLES MINER SWALLOW.....	Clark's Green, Pa.
SIMON WESLEY SWITZER, B. S.....	Lectonia, O.
CLINTON KING THARP.....	Owensboro, Ky.
CHARLES SPAULDING THOMAS..	Prairieville.
WILLIAM FRASER THOMAS.....	Fortville, Ind.
FREDERICK WILLIAM THOMPSON.....	Detroit.
OLIVER MASON TURNER.....	Lewisburg, O.
MATTHIAS SIMON TYLER.....	Put-in-Bay, O.
SAMUEL VAN BLARCOM.....	Lafayette, N. J.
WILLIAM JACKSON VAUGHN.....	Alton, Ill.
BYRON BARZILLIA VEITS.....	Conneaut, O.
JOHN CALVIN WALLACE.....	Worcester, O.
WILLIAM WEBSTER WARNER.....	Allegan.
HENRY BOSTON WIGAL.....	Mattoon, Ill.
CASS WILLIAMS.....	Beemerville, N. J.
ERASTUS APPLEMAN WILLIAMS.....	Freeport, Ill.
LUCIUS OLIVER WILSON.....	East Saginaw.
WILLIAM FISK WILSON.....	Carlton, N. Y.
WILLIAM HENRY HARRISON WINFIELD....	Ironton, Mo.
CHARLES HARMOT WYNN.....	Dixon, Ill.
CHARLES WISNER.....	Pontiac.
CHARLES WOODWORTH, B. A.....	Tyre, N. Y.

University of Michigan.

THE UNIVERSITY OF MICHIGAN is situated in Ann Arbor, on the Michigan Central Railroad, 37 miles from Detroit.

There are three Departments of the University, as follows: the Department of Science, Literature, and the Arts; the Department of Medicine and Surgery; the Department of Law.

THE DEPARTMENT OF SCIENCE, LITERATURE AND THE ARTS, is devoted to liberal education and discipline. The studies are so arranged as to constitute six courses of study, as follows: The Classical Course, the Scientific Course, the Latin, or Greek, and Scientific Course, the Course in Civil Engineering, the Course in Mining Engineering, the Course in Mechanical Engineering. The Degrees conferred for these courses respectively are, for the first, A. B.; for the second and third, B. S.; for the fourth, C. E.; and for the fifth and sixth, M. E., (Mechanical Engineer, or Mining Engineer.) Students who do not wish to pursue either of the above courses, if they are prepared to enter the University, may pursue selected studies, for such a length of time as they may choose. Those who desire it may pursue a special course in Analytical Chemistry, having regular work in the Laboratory. There is also a special Course of Study in Pharmacy. See page 54.

Post graduate courses are provided for such graduates of this or any other University as may desire to study for the second degree. For programme of courses see page 48.

THE DEPARTMENT OF MEDICINE AND SURGERY presents all the advantages of a fully furnished and first-class Medical School. The instruction is mostly carried on by lectures, and the students are enabled, by availing themselves of the advantages presented, to compose the theses and pass the examinations which are to test their scholarship and prove them worthy of graduating as Doctors of Medicine. There

is also a Hospital connected with the Medical Department, affording opportunity for clinical instruction. See page 64.

THE DEPARTMENT OF LAW presents all the facilities that can be desired in a Law School of the highest character.

A course of University Lectures is given by the Professors of the several Faculties, accessible alike to the students of all departments. For programme of lectures see page 65.

Department of Science, Literature and the Arts.

REQUIREMENTS FOR ADMISSION.

All candidates for admission to this Department must be at least sixteen years of age, and must present satisfactory evidence of good moral character.

I.—Classical Course.

Candidates for this course will be examined in the following studies:

1. ENGLISH GRAMMAR.—Orthography, Etymology, Syntax, and Prosody.
2. GEOGRAPHY.—General facts of Physical Geography, the Political Geography of Europe and the United States, and Ancient Geography, particularly that of Italy, Greece, and Asia Minor.
3. HISTORY. An outline of Roman History, from the foundation of the city to the battle of Aetium; of Grecian History from the beginning of the Persian war to the death of Alexander; and of the History of the United States to the close of the Revolutionary War.
4. MATHEMATICS.—*Arithmetic*, Fundamental Rules, Fractions, Common and Decimal, Denominate Numbers, Percentage, Proportion, Involution and Evolution; *Algebra*, Fundamental Rules, Fractions, Simple Equations, Eliminations, Involution and Evolution, and the Calculus of Radicals: *i. e.*, to Quadratic Equations or through the first six chapters of Ray's Higher Algebra; *Geometry*, the first four books of Davies' Legendre, including the problems, or an equivalent in other authors.

5. **LATIN.**—*Latin Grammar*; Four books of Cæsar's Commentaries; Six Select Orationes of Cicero; Six books of the *Æneid*, with special reference to the Prosody; Harkness' Introduction to Latin Composition, from page 50 to page 166; or forty-four exercises in Arnold's Latin Prose Composition.
6. **GREEK.**—*Greek Grammar*; Three books of Xenophon's Anabasis; Arnold's Greek Prose Composition, with special reference to writing with the accents, and to the general principles of Syntax. Three chapters of Boise's Prose Composition, based on the first book of the Anabasis, are recommended as a substitute for the last fifteen exercises of Arnold's Composition.

II.—Scientific and Engineering Courses.

1. **ENGLISH GRAMMAR.**—Same as in Classical Course.
2. **GEOGRAPHY.**—Same as in the Classical Course.
3. **HISTORY.**—Same as in the Classical Course, omitting the History of Greece and Rome.
4. **MATHEMATICS.**—Same as in the Classical Course, with the addition of Quadratic Equations, or through the first seven chapters of Ray's Higher Algebra, and the 5th book in Geometry.
5. **PHYSICS.**—The following studies as contained in elementary works on Natural Philosophy; Properties of Matter; Laws of Motion; Laws of Falling Bodies; Mechanical Powers; Hydrodynamics, and Pneumatics.

Candidates for these courses are recommended to pursue the study of French at least one year before entering the University.

III.—Latin and Scientific Course.

Candidates for this Course will be examined in all the studies required for the Classical Course, except Greek.

IV.—Greek and Scientific Course.

Candidates for this Course will be examined in all the studies required for the Classical Course, except Latin.

V.—Selected Studies.

Those who do not desire to become candidates for a Degree, may be admitted to any Class for such time as they may choose, in case they pass the examinations necessary for admission to the Freshman class, and also exhibit such proficiency as will enable them to proceed advantageously in the particular studies which they propose to pursue.

Advanced Scientific students, who desire to pursue certain subjects as specialities, such as Chemistry, Geology, Astronomy, etc., may have the privilege of doing so, with the consent of the Professor in charge of such studies.

VI.—Advanced Standing.

Candidates for advanced standing will be examined in the previous studies for the Course which they propose to enter; and, if they come from another College, will present certificates of honorable dismission.

VII.—Directions to Candidates for Admission.

The regular examination for admission to the Department of Literature, Science, and the Arts, will take place on Saturday and Monday, June 25th and 27th; and on Monday and Tuesday, September 19th and 20th, 1870, beginning at 9 o'clock A. M.

The candidate must be provided with credentials from his last instructor, or from the last institution with which he has been connected. These must be presented to the President (No. 1 Law Building,) before the candidate can enter upon his examinations.

The examination is conducted by the following Professors :

In *English Grammar*, by Professor Tyler.

In *Geography and History*, Professor Adams.

In *Mathematics*, by Professors Olney, Wood, and Merriman.

In *Latin*, by Professor Frieze.

In *Greek*, by Professor D'Ooge.

In *Natural Philosophy*, by Professor Williams.

SYNCHRONISTIC VIEW OF CLASS EXERCISES AND LECTURES IN THE SEVERAL COURSES.

	CLASSICAL COURSE.	SCIENTIFIC COURSE.	LATIN AND SCIENTIFIC.*	CIVIL ENGINEERING.	MINING ENGINEERING.	MECHANICAL ENGINEERING.
PHRESHMAN.	1st Semester. LATIN:—1.....1st Div. 2, 2d Div. 3. GREEK:—1.....2d Div. 2, 1st Div. 9½. MATH:—1.....2d Div. 9½, 1st Div. 10½. DECLAMATIONS once each week.	HISTORY:—1.....9½. FRENCH:—1.....3. MATH:—1.....8½. DECLAMATIONS Same as Classical Course.	LATIN:—As in Classical Course. FRENCH:—As in Scientific. MATH:—As in Classical. DECLAMATIONS same as Classical.	Same as Scientific Course.	SURVEYING and GEOM. DR.:—As in Soph. Sc. FRENCH:—As in Scientific. MATH:—As in Scientific. DECLAMATIONS same as Classical.	Same as Scientific Course.
	2d Semester. LATIN:—1.....1st Div. 3, 2d Div. 2. GREEK:—1.....2d Div. 3, 1st Div. 9½. MATH:—1 less 6 w. 2d Div. 9½, 1st Div. 10½. BOTANY:—3 w.....11½. DECLAMATIONS once each week.	MATH:—1.....8½. FRENCH:—1.....2. (ENG. LANG.:—1 less 6 w.....3. BOTANY:—6 w.....11½. DECLAMATIONS same as Classical.	LATIN:—As in Classical Course. FRENCH:—As in Scientific. MATH:—As in Classical. BOTANY:—As in all the courses. DECLAMATIONS same as Classical.	Same as Scientific Course.	MATH:—As in Scientific. FRENCH:—As in Scientific. CHEMISTRY:—As in Junior. DES. GEOM.:—As in Soph. Scientific. DECLAMATIONS same as Classical.	Same as Scientific Course.
SOPHOMORE.	1st Semester. LATIN:—1.....1st Div. 9½, 2d Div. 10½. GREEK:—1.....2d Div. 9½, 1st Div. 10½. MATH:—1.....4. COMPOSITIONS once each week.	{ SURVEYING:—1-2.....9½. { GEOM. DRAWING:—1-2.....9½ to 11½. FRENCH:—1.....8½. MATH:—1.....3. COMPOSITIONS same as Classical.	LATIN:—As in Classical Course. FRENCH:—As in Scientific. MATH:—As in Classical. COMPOSITIONS same as Classical.	Same as Scientific Course.		Same as Scientific Course.
	2d Semester. { LATIN:—1-2.....9½. { GREEK:—1-2.....9½. { RHET. or ENG. LIT.:—1-2.....4. { HISTORY:—1-2.....10½. { MATH:—6 w.....3. { MATH. or HISTORY:—1 less 6 w. 3, or 10½. COMPOSITIONS once each week.	{ MATH:—1-2.....2. { DES. GEOM.:—1-2.....10½. { FRENCH:—1-2.....8½. { HISTORY:—1-2.....9½. { RHETORIC:—1-2.....4. { ENG. LIT.:—1-2.....4. COMPOSITIONS same as Classical.	{ LATIN:—As in Classical Course. { DES. GEOM.:—As in Scientific. { RHET. or ENG. LIT.:—As in Classical. { HISTORY:—As in Classical. MATH. or HISTORY:—As in Classical. COMPOSITIONS same as Classical.	Same as Scientific Course.		Same as Scientific Course.
JUNIOR.	1st Semester. PHYSICS:—1.....6 w. 3, after 6 w.....10½. { HISTORY:—6 w.....10½. { GREEK:—1 less 6 w.....9½. FRENCH:—1.....9½. SPEECHES once each week.	PHYSICS:—1.....6 w. 2, after 6 w. 11½. { HISTORY:—6 w.....10½. { PERSPEC. DR.:—1 less 6 w. 3 to 4. { GERMAN:—1.....9½ or { MATH:—1.....As C. E. 2. SPEECHES same as Classical.	PHYSICS:—As in Scientific. { HISTORY:—As in all the courses. { PERSPEC. DR.:—As in Scientific. GERMAN:—As in Scientific. SPEECHES same as Classical.	Same as Scientific Course.	AN. CHEMISTRY:—As in Senior. { LITH. GEOLOGY:—As in Senior. { PERSPEC. DR.:—As in Scientific. MATH:—As in Soph. Scientific. SPEECHES same as Classical.	PHYSICS:—1 As in Scientific Course. MATH:—1 As in Civ. Eng. Course. CHEMISTRY:—6 w. PERSPEC. DR.:—1 less 6 w. As in Scientific Course.
	2d Semester. FRENCH:—1.....9½. { LATIN:—3-5.....10½. { SURVEYING or ENG. LIT. 3, or GERM:—2-5.....2. { CHEM. and MIN.:—3-5.....11½. { ASTRONOMY:—2-5.....11½. SPEECHES once each week.	{ GERMAN:—1.....9½ or { ANL. MECH.:—1.....As C. E. 4. { LOGIC and POL. EC.:—1-2.....10½. { ZOOLOGY:—1-2.....10½. { CHEM. and MIN.:—3-5.....11½. { ASTRONOMY:—2-5.....11½. SPEECHES same as Classical.	GERMAN:—As in Scientific Course. { LATIN:—As in Classical. { SURVEYING:—As in Classical. { CHEM. and MIN.:—As in all the courses. { ASTRONOMY:—As in all the courses. SPEECHES same as Classical.	MACHINE DRAWING:—1.....9½ to 11½. ANL. MECHANICS:—1.....4. { CHEM. and MIN.:—As in all the courses. { ASTRONOMY:—As in all the courses. SPEECHES Same as Classical.	AN. CHEMISTRY:—As in Senior. ANL. MECHANICS:—As in Civil Eng. { MATH:—As in Soph. Scientific. { HIST. GEOLOGY:—As in Senior. SPEECHES same as Classical.	Same as Civil Engineering Course.
SENIORS.	1st Semester. Elect. MENT. PH. and HIST. PH.:—1.....9½. { GEOLOGY:—2-5.....11½. { LATIN:—3-5.....11½. { GERMAN:—1.....10½. { CHEM. and MIN.:—1.....2 to 4. { ZOOLOGY:—1.....10½. { ASTRONOMY:—1.....11½. SPEECHES once each week.	Same as in Classical, Except Latin.	Same as Classical Course.	{ GEOLOGY:—As in all the courses. { LECTURES ON ENGINEERING:—3-5.....11½. GEODESY and TOPOGRAPH. DR.:—9½ to 11½. { HIGHER ASTRONOMY:—6 w.....1½. { ELECTIVE:—From other courses.	AN. CHEM.:—1.....2 to 4. GEOLOGY:—2-5. ENGINEERING operations.	LECTURES ON CIVIL ENG.:—3-5.....11½. GEODESY:—1-2.....9½ to 11½. MACHINE DRAWING:—1-2.....9½ to 11½. AN. CHEMISTRY:—2-5.....2 to 4. LECTURES on Machinery.
	2d Semester. Elect. MORAL PH. and EV. CH.:—1.....9½. { GREEK:—2-5.....11½. { GEOLOGY:—3-5.....4. { GERMAN:—1.....10½. { CHEM. and MIN.:—1.....2 to 4. { ZOOLOGY:—1.....10½. SPEECHES once each week.	MORAL PH. and EV. CH.:—1.....9½. { HISTORY:—2-5.....8½. { GEOLOGY:—3-5.....4. { GERMAN:—1.....10½. { CHEM. and MIN.:—1.....2 to 4. { ZOOLOGY:—1.....10½. SPEECHES same as Classical.	Same as Scientific Course.	LECTURES ON ENGINEERING:—1.....11½. GEOLOGY:—As in Scientific Course. DRAWING:—1.....9½ to 11½. ELECTIVE:—From other courses.	ASSAYING:—1.....2 to 4. MINING ENGINEERING:—1. METALLURGY:—2-5..... DRAWING:—1.....9½ to 11½.	LECTURES on Machinery:—1. MACHINE DRAWING:—1. AN. CHEMISTRY:—3-5.....2 to 4. METALLURGY:—2-5.....2 to 4.

CHAPEL EXERCISES AT 9 1-4 O'CLOCK. SATURDAYS, AT 9.

N. B. The first number following a topic indicates the whole or portion of the Semester during which the study continues. The other figures indicate the hour of exercises.

Courses Described.

I.—English Language and Literature.

This topic includes four branches of work ; first, the study of our language as to its origin, growth and laws ; second, the study of the art of effective expression, whether by pen or voice ; third, the study of the literature of our language ; fourth, regular practice in writing and speaking. The first of these branches is taught by lectures, the second and third both by lectures and by text books ; while the fourth branch is pursued by a series of exercises held once each week.

FRESHMEN.—English Language—Lectures. Exercises in declamation every Monday at 4 P. M. at the Old Chapel. A public exhibition, the participants in which are chosen by the Professor in charge of this department.

SOPHOMORES.—The art of effective expression—Haven's Rhetoric ; Lectures. English Literature—Lectures ; Chaucer's Legend of Goode Women (Corson's Ed.) Exercises in composition every Monday at 3 P. M. at the Old Chapel. Two public exhibitions, the participants in which are volunteers.

JUNIORS.—Exercises in the delivery of original speeches every Monday at 2 P. M. at the Old Chapel. A public exhibition, the participants in which are chosen by the Faculty.

SENIORS.—Exercises in the delivery of original speeches every Saturday morning in the Chapel before all the classes. A public exhibition, the participants in which are chosen by the Faculty.

II.—Latin Language and Literature.

FRESHMEN.—Cicero de Amicitia ; Livy, Lincoln's ; Latin Prose Composition.

SOPHOMORES.—Horace, Lincoln's ; Terence ; Prosody ; Roman History and Antiquities.

JUNIORS.—Quintilian, Frieze's; Essays in Latin; Lectures on Roman Literature.

SENIORS.—Tactius, Tyler's; Essays in Latin; Lectures on Roman History.

TEACHERS' CLASS.—Frieze's Virgil.

III.—Greek Language and Literature.

FRESHMEN.—Xenophon's *Anabasis*, (Bolse's Edition), and selections from Thucydides. Greek History. A considerable portion of the time is also devoted to lessons in the Grammar, and to exercises in Greek Prose Composition.

SOPHOMORES.—Homer's *Iliad*, (Bolse's); Sophocles, (Woolsey's); Analysis of Greek Tragedies; Essays on the Greek Drama.

JUNIORS.—The Oration of Demosthenes on the Crown, (Champlin's Edition.) Essays are required of the class, and lectures are delivered by the instructor, on subjects connected with the age of Athenian Orators.

SENIORS.—Plato's *Apology of Socrates*, in connection with a general study of the Grecian Philosophy; Selections from the *Prometheus* of Æschylus.

IV.—Modern Languages and Literature.

In German the following text-books are used:

Otto's German Grammar;	Lessing's <i>Laokoön</i> ;
Evans' German Reader;	Schiller's Tragedies;
Evans' <i>Abriss der deutschen Literaturgeschichte</i> ;	Goethe's Tragedies; [ture.
Die braune Erica von Wilhelm Jensen, (Evans').	Lectures on German Literature.

Instruction is also given during a portion of the Collegiate year in the Italian and Spanish Languages.

V.—French Language and Literature.

The following text-books are used:

Fasquelle's French Method;	Demogeot's <i>Histoire de la Littérature</i> ,
Grammaire Française de Noël et Chapsal;	Française; [French Plays;
Knapp's French Reader;	Böcher's College Series of Modern
Littérature Française Classique;	Racine; Molière;
Lectures on French Literature.	

VI—History.

The object aimed at is, first, to conduct the student through a careful review of General History; second, to give some insight into the Philosophy of History; third, to lay the foundation for a thorough study of the Political and Constitutional History of our own country.

CLASSICAL COURSE.

FRESHMEN.—Greek and Roman History.

SOPHOMORES.—Medieval History; Modern History to the time of the French Revolution.

JUNIORS.—Philosophy of History, the text book being Guizot's History of Civilization in Europe; Familiar Lectures on Historians.

SENIORS.—Lectures on the Growth of Liberty in England.

SCIENTIFIC COURSE.

FRESHMEN.—Ancient History; Medieval History.

SOPHOMORES.—Modern History to the time of the French Revolution.

JUNIORS.—Same as in the Classical Course.

SENIORS.—Lectures on the Growth of Liberty in England, and on the History and Characteristics of the Constitution of the United States.

LATIN AND SCIENTIFIC COURSE.

Same as in the Classical Course.

CIVIL ENGINEERING COURSE.

Same as in the Scientific Course.

VII.—Pure Mathematics.

CLASSICAL COURSE.

FRESHMEN.—*Geometry*, Problems in construction, Review of Properties of Triangles, Polygons, Plane Areas, Solid and Spherical Geometry; *Algebra*, Quadratics, Ratio, Proportion, Progressions, Theory of Indeterminate Coefficients, Binomial Theorem and its application to the development of Functions, Theory and Use of Logarithms, Indeterminate Analysis, and the Elements of the Theory of Equations.

SOPHOMORES.—*Trigonometry*, Plane and Spherical; *General Geometry*. Construction of Equations, Production of Equations of Plane Loci, Transformation of Coordinates and Properties of the Conic Sections: ELECTIVE; *Calculus*, Differential, including Differentiation of Functions of a Single Variable, McLaurin's and Taylor's Theorems with Binomial Theorems and Theory of Logarithms deduced, Maxima and Minima of Functions of a Single Variable, Radius of Curvature; and the Elementary Principles of Tracing Curves; Integral, Elementary Forms, Binomial Differentials, Rectification and Quadrature of Plane Curves, and Surfaces and Volumes of Solids of Revolution.

LATIN AND SCIENTIFIC COURSE.

Same as in Classical Course.

SCIENTIFIC COURSE.

FRESHMEN.—*Geometry*, the same as Classical; *Plane Trigonometry*; *Algebra*, same as Classical, commencing with Ratio, and adding the Resolution of Cubic Equations and a more complete view of Theory of Equations, including Sturm's Theorem, and Horner's Method of resolving Numerical Higher Equations.

SOPHOMORES.—*Spherical Trigonometry* ; *General Geometry* and *Calculus*, same as in Classical, including the Elective.

CIVIL ENGINEERING COURSE.

FRESHMEN.—Same as Scientific.

SOPHOMORES.—Same as Scientific.

JUNIORS.—*General Geometry*, Polar Coördinates, Lines, Planes and Surfaces in Space, including Surfaces of the 2d Order ; *Calculus*, Differential, including Functions of Several Variables with a fuller view of the Theory of Curves, and Integral, including Functions of two Variables and Special Processes.

MINING ENGINEERING COURSE.

Same Topics as in Scientific Course, pursued in the order indicated in the general Table.

VIII.—Physics.

This study is pursued during the Junior Year.

First Semester.—Principles of Physics by both Sections of the Class.

Second Semester.—Analytical Mechanics by the Scientific Section.

IX.—Astronomy.

Besides the instruction mentioned in the Table, there is a Course in Higher Astronomy, which embraces two years, and is optional. It begins with the first semester of the Senior Year ; and students who wish to go through the whole course must stay one year after graduation.

The lectures during the two years embrace—

1. Spherical Astronomy, and Theory of the Instruments.
2. Calculation of the Orbits of the Celestial Bodies.
3. Numerical Calculus ; Theory of Interpolation ; Method of the Least Squares.
4. Physical Astronomy ; Calculation of the Special and General Perturbations of Planets, and Perturbations of Comets.

During the whole time the student has ample opportunity to use the instruments of the Observatory, and to make astronomical calculations.

X.—Geology, Zoology and Botany.

The elements of structural, physiological and systematic BOTANY are imparted in a course of familiar lectures and practical studies with specimens in hand, under the direction of the Professor. Text book: Gray's Lessons.

Advanced students will be furnished with the requisite facilities and instruction during the second semester.

The elements of structural, physiological and systematic *Zoölogy*—including human anatomy and physiology—are imparted in a course of familiar lectures, with diagrammatic and microscopic illustrations, and a copious use of the Museum.

Advanced students—whether Seniors or Resident Graduates—have the opportunity, each semester, of studying and working with the Professor and his assistants in the Laboratory attached to this Department.

The elements of *Lithological Geology* are imparted in the first Semester, by means of familiar lectures, field collections, and practical studies in the class-room. Text book, Dana's Manual of Geology.

The elements of *Historical Geology* are presented in a series of lectures in the second Semester, illustrated by hand specimens. Text book, Dana.

During the second Semester a course of instruction is also given in the geology of mines, metals and mineral districts.

Advanced students in Lithological Geology and Paleontology will be furnished with the requisite facilities and aid during each Semester.

XI.—Chemistry and Determinative Mineralogy.

The instruction in Chemistry is embraced in a course of lectures to the Medical Class during the first semester, and to the Junior Class during the second, on Elementary Chemistry. The Institution being well supplied with apparatus, these lectures are fully illustrated by experiments, and attended by thorough reviews and examinations. On the basis of a chemical classification of minerals, the science of Mineralogy will be treated in connection with that of Chemistry.

Students most advanced in the science will be admitted into the Analytical Laboratory, and furnished with all the necessary material and apparatus, and will conduct with their own hands, under the direction and supervision of the Professor, a systematic course of Qualitative Analysis. The object of this course will be two-fold: *First*, to make the student familiar, by actual practice, with the principles and laws of the science, as well as the properties of the various elements and compounds, and their relation to each other; *Second*, to exercise the student in chemical manipulations, and enable him to perform analytical investigations.

After a satisfactory completion of Qualitative Analysis, the student may enter upon any of the following courses:

- Qualitative Analysis;
- Determinative Mineralogy;
- Assaying—for Metals;
- Volumetric Analysis;
- Toxicological examinations;
- Pharmaceutical Preparations;
- Ultimate Organic Analysis.

Those who are competent, may receive aid in Original Investigations. (See Mining Engineering, and Course in Pharmacy.)

BOOKS OF REFERENCE.

Miller's Chemistry;	Fresenius' and Rose's Analysis;
Brande and Taylor's Chemistry;	Dana's Mineralogy;
Douglass' Analysis;	Bloxam's Chemistry;
Musprat on the Blow-Pipe;	Cavendish Publications;
Eldernorst on the Blow-Pipe;	Knapp's Chemical Technology.
Normandy's Analysis;	

XII.—Course in Pharmacy.

The Course of Instruction in the Science and Art of Pharmacy comprises:

Lectures upon Chemical Physics, Inorganic and Organic Chemistry, and Toxicology; Lectures on Materia Medica; Recitations and Lectures upon Practical Pharmacy; thorough and systematic practice in Qualitative and Quantitative Chemical Analysis; Practice in Medicolegal Analysis of Poisons, and in Analysis of Urine; Systematic exercises in Metrology, Acidimetry, Distillation and Alcoholometry, and in the preparation of Pharmaceutical and Chemical Compounds and Medicinal Prescriptions; Drug Assays.

During the prosecution of the course, students are admitted to the class in Botany, and to classes in English, German, French or Latin, or any other branch of study, after passing required examinations.

The time necessary for a satisfactory completion of the Pharmaceutical course, is from one and a half to two years.

To those who submit a satisfactory Thesis upon any branch of Pharmaceutical Chemistry, and successfully pass all the examinations, the Diploma of Pharmaceutical Chemist is awarded.

XIII.—Engineering.

The Scientific Course naturally forms the basis of instruction of such professional courses as Civil, Mining and Mechanical Engineering and Architecture; but each is made complete in itself, and all are pursued as parallel courses, as shown in the preceding general Table.

Instruction in the several subjects pertaining to Engineering is given by the use of text books, lectures, reading in the general library, and daily recitations or exercises; and the application of the theory is enforced by requiring the solution of practical problems, exercises in the field, or laboratory, and the construction of original drawings. In Surveying the student is required to use the Chain, Surveyor's Compass, Transit, Theodolite, Transit-Theodolite, Standia, and Level,

in the field, under the direction of an Instructor, and reduce and plat his work. The course in Drawing includes all the principles which are required in the practice of the Professional Engineer. The student is required to explain the processes, as well as to execute his work neatly. These courses are intended for candidates for graduation; but students are permitted to pursue any of the subjects for which they are prepared. Candidates for graduation must prepare a Thesis upon some Engineering Work, or scientific subject, on which he must pass an examination before he is recommended for a Degree.

The subjects which pertain especially to Engineering are given below. The other subjects of the several courses which are given in the General Table, are explained under their appropriate heads.

CIVIL ENGINEERING.

The first two and a half years of this course are identical with the first two and a half years of the Scientific Course, and are intended to lay a broad and substantial foundation of general culture, both scientific and literary. The studies of the remaining part of the course are more closely related to professional practice. The technical subjects of the course are as follows:

SOPHOMORES.—*First Semester*—Surveying, Gillespie's Land Surveying and use of Surveying Instruments; Topographical Drawing, Smith's; Geometrical Drawing, Warren's; Tinting, Shading, and Lettering. *Second Semester*—Descriptive Geometry, Davis'; and Drawing of Problems in Descriptive Geometry.

JUNIORS.—*First Semester*—Theory of Shades, Shadows and Perspective, Warren's; Perspective Drawing and Shading. *Second Semester*—Machine Drawing; Lectures on Cinematics, Technical Machinery and Architecture.

SENIORS.—*First Semester*—*Astronomy*;—Computations for Time, Latitude and Longitude, and the use of Astronomical Instruments. *Geodesy*.—The Theory, Adjustments, and use in the field of the Engineering Instruments; Theory of the Construction of Roads; Topographical and Rail Road Surveying.—Gillespie's Roads and Rail Roads; Henck's Field-Book for Engineers; and Lectures. *Drawing* of Topographical Plans. *Lectures* on the Resistance of Building Materials and the Theory of Trussed Girders. *Geology*—The same as for the Scientific Course. *Second Semester.*—*Drawing*—Plans and Elevations of Engineering Constructions; Stone Cutting; Machine Drawing; Architectural Drawing. *Geology*: the same as in Scientific Course. *Lectures* on the Theory of Tubular, Suspension and Arched Bridges; Roofs; Foundations; Retaining Walls; Hydraulics and Hydraulic Motors. Morin's *Traité d'Hydraulique* is used in the original.

Graduates of the Classical Course are admitted to the Degree of Civil Engineer by passing examinations upon the Technical Subjects

above described, and the Higher Mathematics and Mechanics of the Junior year; but no student is recommended for the degree who does not attend the lectures.

MINING ENGINEERING.

The Course of Study, as may be seen in the Table, embraces three years, and is so called because the degree conferred on those who complete it, is that of "Mining Engineer." The studies of the first two years (Freshman and Junior), will be understood from the Table. The studies of the Senior year will be as follows:

SENIORS.—*First Semester.*—*Chemistry*—Exercises in the Laboratory Continued. *Geology* of Mining Districts. *Geology* and *Drawing*.—Same as Civil Engineering. *Lectures* on Resistance of Building Materials. *Second Semester.*—*Lectures* on *Metallurgy*, *Assaying*. Machine Drawing and Cinematics; Sectional Drawings of Mines; *Lectures* on Mining Operations, Shafts, Adits, Tunnels, Mining Machinery.

In the Laboratory, the student is required to complete specified courses in Qualitative Analysis. Determinative Mineralogy, Quantitative Analysis, and Assaying by blow-pipe, crucible, and volumetric methods.

MECHANICAL ENGINEERING.

This course for the first three years is the same as for the first three years of the Civil Engineering Course.

SENIORS.—*Astronomy*, *Geodesy*, *Geology* and *Lectures* on the Resistance of Building Materials—the same as in Civil Engineering. Lectures and daily recitations are also given upon the following subjects: Theory of Steam and Locomotive Engines, Pattern Making, Moulding in Sand, Machine Shop Practice, Elevations, Sections and Detailed Drawings of Machinery; Metallurgy; and Lectures on the General Principles of Machinery.

ARCHITECTURE.

No technical course in Architecture has been established, but the Course in Civil Engineering includes all the Principles of Drawing which are necessary for representing Designs and working out Detailed Drawings, and the Lectures on the Resistance of Materials and stresses on Frames are sufficiently comprehensive to enable the student to properly Proportion a Structure.

XIV.—Anatomy, Physiology and Hygiene.

A course of lectures is given in Anatomy, Physiology and Hygiene, by the Professor of Anatomy and Physiology.

XV.—Intellectual and Moral Philosophy.

Philosophy is taught in the use of text-books, essays, and discussions by the class, and Lectures by the Professor: during the first semester, Intellectual Philosophy and the History of Philosophy; and during the second semester, Moral Philosophy and the Evidences of Christianity.

XVI.—Logic and Political Economy.

A Course of Lectures on Logic is given during the first semester before the Senior Class.

During the second semester, instruction by use of text-books and lectures, is given, on Political Economy.

DISCIPLINE.

The Rules of the University require that every student shall be in his place, at all stated exercises, from the opening to the close of his connection with the University.

Every instance of absence, tardiness, or failure in recitation, unless a satisfactory excuse be rendered to the proper officer *at or before* the time of occurrence, is reported to the Faculty.

Absences are excused *after* their occurrence only by a vote of the Faculty, satisfactory explanation being made in writing, either by the student or by his parent or guardian.

All unexcused delinquencies are registered; and when the number amounts to five, or any number more than five and less than ten, notice thereof is given to the student, and to his parent or guardian.

When the number of unexcused delinquencies amounts to *ten*, the student ceases to be a member of the University.

Students are also dismissed whenever, in the opinion of the Faculty, they are pursuing a course of conduct detrimental to themselves and to the University.

Students who are not in their places at the opening of the term, must present written excuses from their parents or guardians for the delay.

Students are not allowed to absent themselves from town without permission from the President.

The Undergraduate Students are required to attend prayers daily in the College Chapel, and public worship on the Sabbath at any one of the churches in the city of Ann Arbor which they, or their parents or guardians may select.

No student can drop any course or study until he shall have attended the regular term examination in the same.

DEGREES.

The Degree of **MECHANICAL ENGINEER** is conferred upon students who complete the course of Mechanical Engineering.

The Degree of **MINING ENGINEER** is conferred upon students who pass the examinations in the School of Mines.

The Degree of **CIVIL ENGINEER** is conferred upon students who complete the course of Civil Engineering, and pass the examinations in the same.

The Degree of **PHARMACEUTICAL CHEMIST** is conferred upon students who complete the course of Pharmaceutical Chemistry and pass the examinations in the same.

The Degree of **BACHELOR OF ARTS** is conferred upon students who complete the Classical Course, and pass the examinations in the same.

The Degree of **BACHELOR OF SCIENCE** is conferred upon students who complete either of the Scientific Courses, and pass the examinations in the same.

The Degrees of **MASTER OF ARTS** AND **MASTER OF SCIENCE** are conferred respectively, upon Bachelors of Arts and Bachelors of Science, according to the following conditions:

1. The candidate must be a graduate either of this or some other collegiate institution empowered to confer degrees.
2. He must pursue at least two of the courses for a year, designated in the programme on the following pages.
3. He must sustain an examination before the Faculty in at least three of the studies so attended—the studies to be elected by the candidate.
4. He must present a thesis to the Faculty on one of the subjects chosen for examination.

The second Degree may thus be obtained, on examination, one year after the first Degree.

The Master's Degree will also be conferred upon graduates of three year's standing, who shall have engaged, during that period, in professional, or in literary and scientific studies.

The above-described higher courses will not be restricted to graduates and candidates for the second Degrees, but will be open to all who shall give satisfactory evidence of ability to profit by them.

Programme of Studies

For the Degrees of M. A. & M. S.

COURSES FOR THE FIRST TERM.

- Professor WILLIAMS.—*Physics*.—Analytical Mechanics.
- Professor DOUGLASS.—*Chemistry and Mineralogy*.—A course of Qualitative and Determinative Mineralogy.
- Professor WINCHELL.—*Zoölogy*.—Lectures on the Vertebrate Skeleton—its Morphology and Homologies.
- Professor FRIEZE.—*Latin Literature*.—The Epistolary Writings of Cicero, and Pliny the Younger.
- Professor ADAMS.—*History*.—Lectures on General History.
- Professor WOOD.—*Civil Engineering*.—Theory of Constructions.
- Professor WATSON.—*Astronomy*.—Numerical Calculus; Theory of Interpolation and Quadratures; Method of the Least Squares.
- Professor EVANS.—*German Literature*.
- Professor OLNEY.—*Mathematics*.—Differential and Integral Calculus.
- Professor SPENCE.—*Growth of French Language and Literature*.
- Professor TYLER.—*Philology*.—Origin and growth of English Language.
- Professor D'OOGHE.—*Greek Literature*.—The Dramatic Writers of Greece.
- Professor COCKER.—*Logic*.—Its History and actual influence on thought and language.

COURSES FOR THE SECOND TERM.

- Professor WILLIAMS.—*Physics*.—Mathematical Theory of Light and Sound.
- Professor DOUGLASS.—*Chemistry and Mineralogy*.—Course of Quantitative Analysis, with investigations, referring specially to the applications of the Science to the Arts, Manufactures and Agriculture.
- Professor WINCHELL.—*Paleontology*.—A course of study of the organic remains of one of the Palaeozoic Groups of Rocks.

Professor FRIEZE.—*Latin Literature*.—The Roman Satirists.

Professor ADAMS.—*The History of England*, with special reference to the growth of the British Constitution.

Professor WOOD.—*Civil Engineering*.—Theory of Machines ; Hydraulics.

Professor WATSON.—*Calculations* of the special and general Perturbations of Planets and the Perturbations of Comets.

Professor EVANS.—*German Literature*.

Professor OLNEY.—*Mathematics*.—Calculus of Variations.

Professor SPENCE.—*French Literature* in the 17th century.

Professor TYLER.—*General Culture*.—Theory of Taste ; Logical Criticism of Language.

Professor D'OOGHE.—*Greek Literature*.—The Greek Philosophical Writers.

Professor COCKER.—*General Culture*.—Theory of Taste ; Political Economy.

Department of Medicine and Surgery.

I.—Terms of Admission.

Every candidate for admission shall exhibit to the Faculty satisfactory evidence of a good moral and intellectual character; a good English education, including a proper knowledge of the English language, and a respectable acquaintance with its Literature, and with the Art of Composition; a fair knowledge of the Natural Sciences, and at least of the more elementary mathematics, including the chief elements of Algebra and Geometry, and such a knowledge of the Latin Language as will enable him to read current prescriptions, and appreciate the technical language of the Natural Sciences and of Medicine.

Students are expected to be in attendance upon *the first day of the term*, as the regular course of instruction will commence upon, and continue from, that day; *and, by the rule adopted, certificates are issued only for the period of actual attendance.* Candidates for admission will apply first to the Steward, at his office, in the Museum Building, and afterwards to the Secretary of the Faculty.

II.—Course of Instruction.

The Annual Session commences on the first day of October, and continues until the last Wednesday in March.

Four lectures are delivered daily. Previous to each lecture, the students are carefully examined upon the subject of the preceding lecture.

The total number of lectures in the term will thus be between six and seven hundred.

Clinics are given every Saturday for both medical and surgical patients, when examinations are held, prescriptions made, and operations performed, gratuitously to patients, in the presence of the class.

A special course of instruction in Physical diagnosis is given by the Professor of the Theory and Practice of Medicine, for which a fee of five dollars extra is required. Also, special instruction in Microscopy is given by the Professor of Anatomy and Physiology, for which also a fee of five dollars is charged. Attendance on either of the above courses is optional with the students.

III.—Degrees.

To be admitted to the degree of "Doctor of Medicine," the student must exhibit the evidence of having pursued the study of Medicine and Surgery for the term of three years, with some respectable Practitioner of Medicine, (including lecture terms); must have attended two full courses of lectures, the last of which must have been in the College of Medicine and Surgery of the University of Michigan, and the previous one in this or some other respectable Medical Institution; must have been engaged in the study of Practical Anatomy; must be twenty-one years of age; must have submitted to the Faculty a thesis, composed and written by himself, on some medical topic, and have passed an examination, at the close of the term, satisfactory to the Faculty.

To encourage a higher grade of preliminary acquirement, an allowance of six months from the term of study is made in favor of graduates of the Department of Science and Arts, and of other respectable Literary Colleges.

Each candidate for graduation must so announce himself at the commencement of his second course, and must be examined in Anatomy, Physiology, Materia Medica and Chemistry. He is also required, during the course, to submit to written examinations by each Professor, on some subject pertaining to his department, in order to further test his knowledge of such subjects, and his ability to express himself correctly in writing. His final thesis may be written either in English, German, French or Latin; and, if required, must be defended before the Faculty.

The theses of successful candidates are to be preserved among the archives of the College.

IV.—General Observations.

The University of Michigan has aimed to elevate the standard of medical attainments, as will appear by consulting the requirements for Medical Degrees. Should the student enter upon the course with an inadequate preparation, he cannot be admitted as a candidate for the degree of M. D., nor hope to pass the required examination, without subjecting himself to severe study.

The Medical Faculty, in common with all enlightened members of the Profession, desire, earnestly, that a rule might prevail in our country like that which prevails in most of the Universities of Europe, by which a liberal education should be the necessary introduction to professional study. The sciolist easily runs into the empiric; but he who has obtained a thorough scientific discipline, knows how to discriminate between visionary conjectures and established truths. In pursuance of this prime object, several modifications of the prevailing system of medical teaching have been adopted, among which may be specified, the extension of the lecture term; thorough daily examinations upon topics discussed; cultivation of the power of communicating medical facts and principles in writing; frequent examinations in review; and adequate proofs of high proficiency, prior to granting the honors of the Institution.

A well arranged Hospital, established on the University grounds, and under the charge of the Medical Faculty, is open to patients resorting to the University for treatment, and affords to students the advantages of clinical instruction.

Arrangements have been made by which an ample supply of *materiel* for the purpose of Practical Anatomy has been secured; and special attention is devoted to rendering this important study as advantageous as possible to the student. Experience has shown that the *materiel* for this department can be furnished as abundantly, and at as low rates, as at any other institutions of the kind.

The means of illustration in the Chemical Department and in the Department of Materia Medica, were, not long since, greatly increased by the importation from Paris of an extensive suit of rare and pure Chemicals, and of various articles of Organic Materia Medica, put up in a beautiful and uniform style. The Chemical Apparatus and Surgical Instruments have also been much increased, and the means of illustrating cutaneous and other diseases from plates and models have become very extensive.

By an act of the Legislature, the statute making the appointment of a Professor of Homoeopathy in the Medical Department a condition of receiving an appropriation, has been repealed. Homoeopathy is, therefore, in no way connected with the University.

Additions are constantly being made to the Museum of Anatomical and Pathological specimens, as well as of specimens of the crude Materia Medica and of Pharmaceutical preparations. Various friends of the Institution have continued to manifest their kindness and interest by sending contributions to the different departments.

V.—Books of Reference.

The following, among others, are recommended:

Anatomy—Gray; Wilson, Leidy, Peaslee.

Physiology—Dalton, Carpenter, Todd and Bowman.

Chemistry and Pharmacy—Fownes, Bloxam, Bowman, Douglass' Analysis, Parrish's Pharmacy.

Materia Medica—Wood, Waring, Headland, Stille, U. S. Dispensatory.

Obstetrics—Cazeau, Churchill, Meigs, Tyler, Smith, Bedford, Hodge.

Diseases of Women—Ashwell, Meigs, West, Churchill, Hodge, Thomas, Hewitt.

Diseases of Children—West, Meigs, Condie, Bouehut.

Surgery—Druitt, Miller, Erichson, Gross.

Pathology—Paget, Rokitansky, Simon, Jones & Sieveking's Path. Ant., Williams' Principles.

Practice of Medicine—Wood, Watson, Aitken, Dickson, Barlow, Bennett.

On Special Subjects—Walshe or Flint on the Lungs, Flint, or Stokes, on the Heart, Budd on the Stomach and Liver, Golding Bird or Morland on Urinary Diseases, Wilson on Diseases of the Skin, Barelay or Da Costa on Diagnosis.

Department of Law.

I.—Department of Law.

In this Department it has been the endeavor, alike of the Regents and of the Faculty, to make the instruction imparted and the advantages afforded equal to any attainable elsewhere in the country; and in this they believe they have been entirely successful. They intend to spare no effort on their part to render it deserving, in the future, of a continually increasing prosperity. A spacious building has been erected for its accommodation, with ample debating and society rooms, and in every respect the conveniences of the Department are unsurpassed.

II.—Terms of Admission.

The sole requisites of admission are, that the candidates shall be eighteen years of age, and be furnished with certificates giving satisfactory evidence of good moral character. No previous course of reading is required, and the course of instruction for the two terms has been carefully arranged, with a view to enable students to enter profitably at any stage of their studies, and at either term.

III.—Course of Instruction.

The design of the Department is to give a course of instruction that shall fit young gentlemen for practice in any part of the country. The course will embrace the several branches of Constitutional, International, Maritime, Commercial, and Criminal Law, Medical Jurisprudence, and the Jurisprudence of the United States; and will include such instruction in Common Law and Equity Pleading, Evidence and Practice, as will lay a substantial foundation for practice in all departments of the law.

The course will be continued through a period of two years, with one term in each year, commencing on the first day of October, and continuing until the Law Commencement in the last week of March.

discussing. Ten lectures and examinations will be held each week during the term. For one year they embrace the following subjects.

The Origin and History of Equity of Jurisprudence;
 The General Heads of Equity Procedure, and Nature and Forms of Equitable Remedies;
 Criminal Law;
 The Laws of Evidence, and their application to Legal Proceedings;
 Contracts;
 Title to Personal Property, by Gift, Inheritance, Sale, Mortgage, Assignment, and by Operation of Law; Bailments;
 Bills of Exchange and Promissory Notes, and Commercial Law generally;
 Estates in Real Property;
 Easements;
 Title to Real Property;
 The Domestic Relations.

For the year after, the following subjects:

Some Special Heads of Evidence, and Equity Jurisprudence;
 Equity Pleading and Practice; Jurisprudence of the United States;
 Shipping and Admiralty;
 Agency; The Law of Corporation; Common Law Pleading and Practice;
 Constitutional Law; Partnership; Uses and Trusts; Wills, their Execution, Revocation and Construction;
 The Administration and Distribution of Estates of Deceased Persons.

Moot Courts are held at least once a week during the term, for the argument of cases previously given out by the Professors to students designated to discuss them. They will be presided over by the Professor lecturing for the day, who, at the conclusion, will review the arguments, and give his decision upon the points involved. Club Courts will also be organized among the students, to be arranged and conducted by themselves, with such assistance from the members of the Faculty as may be desired. These Courts, thus far, have been found both interesting and exceedingly useful.

IV.—Library.

A well-selected and very useful Law Library has been purchased, and arranged for the use of students, which will be open for consultation at all reasonable hours. The rooms of the Professors adjoin the Library, and they will be ready at all times to furnish to students such aid in their studies and investigations as they may desire. The General Library of the University is also at all times open to the students of this Department.

Hon. RICHARD FLETCHER, late one of the Justices of the Supreme Court of Massachusetts, has generously presented to the Department his valuable Law Library.

V.—Degrees.

The Degree of Bachelor of Laws will be conferred upon such students as shall pursue the full course of two years in this Department, and pass an approved examination. It will also be conferred on those who, having attended another Law School for a period equal to one year of our course, or practiced law for one year under a license from the highest Court of general jurisdiction in any State, shall also pursue one year's course in this Department, and pass a like examination. In Michigan, the degree entitles the resident graduate to an immediate license to practice in all the Courts of the State.

Candidates for degrees must announce themselves as such to the Dean of the Faculty, at least three months before Commencement. They must be twenty-one years of age, and each will be required to prepare and deposit with the Faculty, at least one month before graduation, a dissertation not less than forty folios in length, on some legal subject selected by himself. These theses will be filed and preserved in the Library.

VI.—Books.

While several copies of each of the leading text-books will be found in the Library, it is exceedingly desirable that students should supply themselves with such as they may need at their rooms. The professors will lend them aid in making proper selections, and no loss will be incurred, as the books will be found essential in subsequent practice; students will find that it will greatly facilitate their studies to have them at hand at all times.

VII.—General Remarks.

The Faculty are frequently applied to by letter for advice upon the question whether it is desirable to enter upon the study of law, and acquire some general knowledge of its principles before admission to the Department. It is somewhat difficult to lay down general rules that can be advantageously applied in all cases, but the Faculty are of the opinion that, for the first year at least, more positive benefit is received from the lectures, and more positive advancement in the law made, by students who have read before coming, at least, the Commentaries of Blackstone, than by those who are beginners here. But the Faculty are aware of the difficulty experienced by the student in giving proper direction to his reading and investigations at the beginning; and they do not, therefore, make it a condition of admission that there shall be any prior reading in the law whatever. The want of such prior reading will, doubtless, in many cases, be fully compensated in the aid the

beginner may receive here at the outset. It is not often that the student receives the needed assistance, except in Law Schools. The active practitioner, engrossed with the cares of business, cannot—or at least, as proved by experience, does not—furnish the students who place themselves in his charge, the attention and assistance essential to give a correct direction to their reading, and to teach them to apply it usefully and aptly in their subsequent professional life. The reading of a student in a law office is practically the study of the law by himself, and without assistance; and he neither acquires that familiarity with books and that facility of reference which it will be the aim of this Department to assist in acquiring, nor learns anything of the practical application of legal principles, beyond what he may pick up from observation of the practice of his preceptor. The effort here will be to make, not *theoretical* merely, but *practical* lawyers; not to teach principles merely, but how to apply them. To this end, the Moot Court will be made the forum for the discussion of such practical questions as must frequently arise in a professional career at the bar; and the attention of the Faculty will be directed not less to the application of the points discussed to actual cases, than to the elucidation of the legal questions. An opportunity will be afforded all the senior students to participate in this Court, and they will at all times have such assistance in their Club Courts as they may find themselves in need of.

While thus sedulously endeavoring to impart legal knowledge, the fact will not be lost sight of, that a high moral standard is a most important requisite to a successful and honorable legal career; and no pains will be spared in impressing this fact upon students, and in inculcating a high tone of professional ethics and action.

University Lectures.

The following courses of lectures will be given during the present collegiate year :

- I. On Geology by Professor WINCHELL.
- II. On Anatomy and Physiology by Professor FORD.
- III. On Roman History by Professor FRIEZE.
- IV. On Astronomy by Professor WATSON.
- V. On German Literature by Professor EVANS.
- VI. On French Literature by Professor SPENCE.
- VII. On Early English Literature by Professor TYLER.
- VIII. On Mediæval and Modern History by Professor ADAMS.
- IX. On Greek Literature by Professor D'OOGHE.

A series of occasional lectures will be given by members of the several Faculties, at intervals of a week or fortnight, commencing, the present year, the first week of the second semester.

The first of the occasional lectures will be delivered by the Acting President :—

Subject—"The Nationalities of Europe."

The second by Professor FORD ;

Subject—"The Nervous System."

The third by Professor CAMPBELL ;

Subject—"Changes in the legal systems in the history of Michigan."

The fourth by Professor COCKER ;

Subject—"The relation between Physiology and Psychology."

All University lectures are open to the public.

Miscellaneous.

1.—Libraries.

The University Library contains more than seventeen thousand books, all of which have been purchased within a few years. An appropriation of about two thousand dollars is made annually for its enlargement.

A course of Lectures on the proper use of the Library is given by the Librarian during the first semester.

The Law Library is open to students of the law department, ten hours daily. It contains about three thousand volumes.

The two Literary Societies, in the Department of Science, Literature and the Arts, have also good and growing libraries.

The Christian Association connected with the University has a well selected Library of moral and religious works. Donations to this Library would be gladly received.

The Libraries accessible to the students amount, in the aggregate, to about 25,000 volumes.

II.—Astronomical Observatory.

The Observatory, a donation of citizens of Detroit, is situated half a mile from the University ground, in Ann Arbor, on a hill 150 feet above the Huron River. The building consists of a main part, with a movable dome 21 feet in diameter, and two wings, one of which contains the rooms for the observer, while in the other is mounted the splendid Meridian-Circle presented by H. N. WALKER, Esq., of Detroit. This instrument, one of the largest and best of its kind, was imported from Berlin. The focal length of its telescope is eight and a half feet, and the clear aperture of the object-glass is six and a half inches. It is furnished with two circles a little more than three feet in diameter, and each circle is provided with four microscopes, by which the divisions of the circle can be read as near as one-tenth of a second. The same room contains a sidereal clock, made by TRIEDE, in Berlin, and two collimators, north and south from the Meridian-Circle, for the determina-

tion of the error of collimation. The west wing contains a Chronograph, with BOND's new isodinamic escapement, for recording observations by the electro-magnetic method. In the dome is mounted a large refracting telescope, with an object-glass thirteen inches in diameter, constructed by the late HENRY FITZ, of New York.

Students who make astronomy an optional study during the Senior year, or in the University Course, will have instruction in the use of the instruments, and will have an opportunity to participate in the observations.

III.—The Museum.

The University Museum embraces the following valuable collections, illustrative of Science, Art, History, Agriculture, and Ethnology :

1.—NATURAL HISTORY.

I. A choice collection of MINERALS, embracing over six hundred specimens, principally European. This collection was purchased of the late Baron LEDERER, and is called the "*Lederer Collection*." Also a rich collection of the MINERAL SPECIES OF MICHIGAN, including all the varieties of *Copper Ore and Associated Minerals* from the different localities of the Lake Superior district. This collection is partly the fruit of the State Geological Survey, and partly the result of subsequent labors of Prof. DOUGLASS.

II. The collection in GEOLOGY, consists of:

1st. The large and complete series of lithological and palæontological specimens brought together by the State Geological Surveys, of which over a hundred fossil species have already become the types of original descriptions.

2d. The WHITE COLLECTION, consists of 1,018 distinct entries and 6,000 specimens.

3d. The ROMINGER COLLECTION, embracing about 2,500 entries and 6,000 specimens, mostly from the Mesozoic formations of Central Europe. This collection embraces 500 specimens of Mesozoic Ammonites.

4th SMITHSONIAN DEPOSITES, consisting for the present of a collection of foreign and domestic specimens of building stones, and 23 species of fossil from the Upper Missouri.

5th. MISCELLANEOUS DONATIONS AND COLLECTIONS, embracing more than four cases illustrating the metalliferous regions of the Upper Peninsula, collected by Professor Winchell.

The entire Geological Cabinet is estimated to contain about 12,400 distinct entries and 37,000 specimens.

III. A very large ZOOLOGICAL COLLECTION, consists of :

1st. A complete suit of the *Birds which visit Michigan*, with most of the *Mammals of the State* ; a nearly complete Series of the *Reptiles found east of the Rocky Mountains* ; two thousand species of *Mollusca*, embracing all the land and fresh-water forms of the Northern and Western States, and a considerable collection of the *Fishes and Radiata*.

2d. The TROWBRIDGE COLLECTION. This is a series of 1,856 entries (3,000 specimens) in most of the classes of the Animal Kingdom, made by Lieut. TROWBRIDGE (late Professor in the University) upon the Pacific coast, with numerous additions from the interior and eastern portions of the continent, supplied by the Smithsonian Institution.

3d. A collection of about 5,000 Coleoptera and Lepidoptera from the estate of the late GEORGE L. AMES, M. D., of Niles.

4th. SMITHSONIAN DEPOSITES, consisting of about 200 skins of birds from the Arctic Zone ; 204 entries of marine shells from the Indo-Pacific, and Panama, labeled by Mr. P. P. CARPENTER ; and 81 entries of *Unionide*.

5th. MISCELLANEOUS DONATIONS AND COLLECTIONS.

The whole number of entries in the Zoological Cabinet is over 8,200, and the whole number of specimens not less than 22,400.

IV. A BOTANICAL COLLECTION, consisting of :

1st. The plants of the State, collected by the public surveys, and numbering about 1,175 species, 1,500 entries, and 9,000 specimens.

2d. The HOUGHTON HERBARIUM, collected by the late Professor DOUGLASS HOUGHTON, M. D., and recently presented to the University by his widow, the late Mrs. R. R. RICHARDS. It consists of 28 folio cases of dried and labeled plants from various parts of the United States, and is estimated to contain 1,800 species.

3d. The SAGER HERBARIUM, recently presented by Prof. ABRAM SAGER, and containing about 1,200 species and 5,000 specimens, collected mostly in the New England and Western States.

4th. The Dr. AMES HERBARIUM, consisting of a serial collection of 7,000 specimens, and 10,500 duplicates, presented by the family of the late Dr. AMES, of Niles, Michigan.

5th. A collection of truncheons of the different varieties of wood growing in the United States, and a few from foreign countries.

6th. A collection of the seeds of native and cultivated plants.

The entire Botanical Cabinet embraces 5,500 entries and over 34,200 specimens. The Geological, Zoölogical and Botanical Cabinets together, are estimated to contain about 26,100 separate entries and 94,600 specimens.

2.—ETHNOLOGY AND RELICS.

This department of the Museum, now in its incipency, contains

various articles of domestic and warlike use among the North American Indians, and the islanders of the South Pacific; and sundry relics and memorials of the enterprises of Peace as well as of our great Civil War. It seems eminently appropriate that the University of Michigan should make efforts to preserve memorials of the native tribes so fast disappearing before the march of civilization; and it is earnestly hoped that this department of the Museum may be deemed a suitable place of deposit for any such relics in the possession of our citizens. A number of interesting relics from the Pacific Islanders have been added by the Smithsonian Institution.

Efforts are making to found in the University a collection illustrating the materials, processes and products of agriculture and horticulture. The nucleus of such a collection already exists in, 1st, The Botanical and Zoölogical Cabinets, and the Cabinet of Economical Geology; 2d, A collection of the seeds of cereals and other field and garden crops; 3d, An interesting collection of textile fibres and various substitutes for cotton, received from the department of Agriculture at Washington.

3.—THE FINE ARTS AND HISTORY.

This collection was commenced in the year 1855, and at present comprises:

1. A Gallery of CASTS, in full size and in reduction, of the most valuable *Ancient Statues and Busts*. These were mainly executed at the imperial modeling establishment of the Louvre, by DESACHY, of Paris, and by the Brothers MICHELI, of Berlin.

2. A Gallery of more than two hundred REDUCTIONS AND MODELS in terra cotta and other materials. These represent the principal *Statues, Portrait Busts, Vases and other Antiquities in the Museo Borbonico* and other European Museums. They were executed at Naples.

3. A Gallery of ENGRAVINGS AND PHOTOGRAPHIC VIEWS, executed in Italy and Greece, illustrating especially the *Architectural and Sculptural Remains of Ancient Rome, Pompeii, Paestum, Athens and Corinth*.

4. The *Horace White Collection of Historical Medallions*, comprising 1st, Four hundred and fifty *Casts from Antique Gems* in the Royal Museum at Berlin, illustrative of Ancient History; 2d, Over five hundred *Casts illustrative of Mediæval History and of the Renaissance Period*; 3d, About four hundred *Medallion Portraits of Leading Personages in Modern History*.

5. A collection has been commenced of copies of the great masterpieces of modern painting, beginning with those prior to Raphael.

6. The Statue of Nydia, the blind flower girl of Pompeii, and of Ruth Gleaning, by Randolph Rogers.

In addition to the above are several copies of *Modern Statues, Busts and Reliefs*, by MICHAEL ANGELO, CANOVA, THORWALSDEN, and others.

4.—ANATOMY AND MATERIA MEDICA.

The Anatomical Museum has been selected and prepared with direct reference to teaching. Although it is not deemed necessary to enumerate particularly its contents, a few may be named to indicate the character of the collection.

Besides containing a number of *Adult Skeletons*, articulated and separate, of the most perfect description, there are preparations illustrating the various stages of development and change of the human body from its first rudiments of foetal life to extreme old age, and a variety of partial or complete skeletons of inferior animals, to exhibit their various modifications.

It contains, likewise, beautifully prepared *Skulls and Teeth*, to illustrate first and second dentition, and others showing many of the diseases to which they are subject.

Various *Arterial Preparations*, complete and partial, afford good facilities for studying the vascular system.

Several hundred *Alcoholic Preparations* of healthy and diseased structures—human and comparative—furnish important aid in illustrating Physiology and Pathology; while models in plaster and *papier maché*, with a valuable collection of *Plates, Splints, and Surgical Instruments*, meet the wants of the more practical branches.

An important addition to these means of illustration has recently been made by an importation from Europe of great beauty and value; among which are a collection of bones of the head, disarticulated and mounted, and an extended collection of Wax Models, illustrative of various anatomical and pathological conditions, including representations of the anatomy of the pelvis and its contents, of several varieties of hernia, of specimens of small pox and the vaccine disease, and of a large number of cases in ophthalmic surgery, etc.

The Department of the Museum illustrative of Materia Medica consists of a very complete suit of *crude Organic Medicinal Substances*, embracing between five and six hundred specimens, imported from Paris, put up in beautiful glass-covered half-gallon jars, of uniform appearance, finely displayed, and arranged according to their order in Natural History; besides about one thousand other specimens of *Simple Mineral and Vegetable Substances* and *Pharmaceutical and Official Preparations, Active Principles*, etc., arranged in groups convenient for study; and altogether comprising a collection which, in amount,

variety, and adaptedness to the purposes of instruction, it is confidently believed is not surpassed by any of a similar character.

Besides these actual specimens, Medical Botany is illustrated by between one and two hundred large, and finely-colored *Plates*, framed and glazed, and displayed for observation.

A full suit of *Instruments used in the Diseases of Females* is deposited in the Museum, illustrating the surgical processes required in this class of cases; and the magnificent *Portraits of Cutaneous Diseases*, by Dr. ERASMUS WILSON, and no less useful collection by Dr. ROBERT WILLIS, illustrate very fully this department of Pathology.

All the above collections are arranged in galleries, for the purpose of rendering them attractive, as well as accessible, both to students and visitors. The University thus affords a secure depository for objects of value and curiosity, and it is, therefore, to be hoped that the Museum will receive accessions by donations from various sources.

Expenses.

The only charges made by the University are: To residents in Michigan, an admission fee of ten dollars; to those who come from other States or countries, an admission fee of twenty-five dollars; and to every student an annual payment of ten dollars. The admission fee is paid but once, and entitles the student to the privileges of permanent membership in any Department of the University. The annual tax is paid the first year and every year thereafter.

There are no dormitories and no commons connected with the University. Students obtain board and lodging in private families for from three to six dollars per week. Clubs are also formed, by which the price of board is much reduced.

General Rules of the University

Respecting Admission to the Several Departments, and Matriculation and other Fees.

EXTRACTS FROM THE BY-LAWS.

Every student, before entering any Department of the University, shall pay to the Steward the sum of ten dollars, if a resident of Michigan, and of twenty-five dollars, if from any other State, as a Matriculation Fee. Each student shall also pay to the Steward, annually, ten dollars, to be devoted to the payment of incidental expenses. Resident graduates are required to pay the same annual dues as undergraduates, and no student or graduate shall be allowed to enjoy the privileges of the University, except on presentation to the President of the Steward's receipt for all fees and dues specified in this or any other rule or regulation of the Board of Regents.

The name of no person shall be presented by any faculty to the Board of Regents for a degree, till he has exhibited to the Faculty the receipt of the Steward for the payment of all his dues, including the fee for diploma.

ADMISSION TO THE ACADEMICAL DEPARTMENT.

Every candidate for admission, when coming from another Collegiate Institution, shall exhibit a certificate of honorable dismissal.

Every candidate for admission to the Freshman Class shall pass an examination satisfactory to the Faculty, in the preparatory studies as required by the rules; and every applicant for an advanced standing shall be examined not only in the preparatory course, but also in all the previous studies of the class which he proposes to enter.

No student can be admitted to the Department whose age is less than sixteen years.

ADMISSION TO THE LAW DEPARTMENT.

No student shall be admitted to this Department who has not attained the age of eighteen years, nor until he has presented to the Faculty satisfactory evidence of a good moral character.

ADMISSION TO THE MEDICAL DEPARTMENT.

Every candidate for admission shall exhibit to the Faculty satisfactory evidence of a good moral character; a good English education, including a proper knowledge of the English language, and a respectable acquaintance with its literature and with the art of composition; a fair knowledge of the Natural Sciences, and at least the more elementary Mathematics, including the chief elements of Algebra and Geometry; and such a knowledge of the Latin Language as will enable him to read current prescriptions and appreciate the technical language of the Natural Sciences and of Medicine.

Calendar.

Department of Science, Literature, and the Arts.

1870.	January	31,	Semi-Annual Examination begins.
"	February	4,	First Semester closes.
"	February	7,	Second Semester begins.
"	March	29,	Junior Exhibition. Recess of one week.
"	April	6,	College Exercises resumed.
"	May	30,	Examination of Seniors.
"	June	1,	Class Day.
"	June	21,	Semi-Annual Examination begins.
"	June	25,	Examination of Candidates for admission.
"	June	26,	Baccalaureate Address.
"	June	27,	Examination of Candidates for admission.
"	June	28,	Anniversary of the Society of Alumni.
"	June	29,	Commencement. Vacation begins.
"	September	19,	Examination of Candidates for admission.
"	September	21,	First Semester of next College Year begins.
"	November	9,	University Day.
"	December	23,	Vacation of two weeks begins.

Department of Medicine and Surgery.

1870.	March	30,	Term ends; Commencement.
"	October	1,	Term of next College Year begins.

Department of Law.

1870.	March	30,	Term ends; Commencement.
"	October	1,	Term of next College Year begins.

Additional Names.

Department of Science, Literature, and the Arts.

SENIORS.

<i>Name.</i>	<i>Course.</i>	<i>Residence.</i>
GEORGE WASHINGTON ALLYN.....	Cl.....	Nankin.
JOSEPH LEE LOGAN.....	Cl.....	Lawrence, Kan.

JUNIORS.

FREDERICK HAMPDEN BACON.....	Cl.....	Niles.
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SOPHOMORES.

GEORGE WASHINGTON CRAIG.....	Sc.....	Tuscola, Ill.
MATHEW THOMPSON CURRY.....	Sc.....	Mineral Point, Wis.
SIMEON SANDERSON HAINES.....	Cl.....	Marshfield, Ill.
EDGAR DAY KING.....	Cl.....	East Raisinville.
ANTHONY D. MARSHALL.....	Sc....	Bainbridge.
SAMUEL LEE MCKELVEY.....	Sc.....	Plymouth, Ind.
HECTOR NEUHOFF.....	Cl.....	Belleville, Ill.
HERBERT DWIGHT PETERS.....	L.....	Petersburg.
GEORGE FRANCIS ROBISON.....	Cl.....	Grass Lake.

FRESHMEN.

HENRY HOWELL LOCKWOOD.....	Sc.....	Coldwater.
MADALON LOUISA STOCKWELL.....	Cl.....	Kalamazoo.

SELECTED STUDIES.

CHARLES TUPPER BEATTY.....	Cleveland, O.
CHARLES HENRY COLDREN.....	Northville.
ALMON F. HOYT.....	Caro.

Department of Medicine.

<i>Name.</i>	<i>Residence.</i>	<i>Preceptor.</i>
HORATIO N. CRANE.....	Papakating, N. J....	M. Lampson.
JAMES R. MCGURK.....	Mooretown, Ont....	A. W. Gamble.
OSCAR B. MOSS.....	Davison	H. B. Mager.
WILLIAM J. ROTHWELL...	Listowell, Ont.....	R. C. Curry.

Department of Law.

<i>Name.</i>	<i>Residence.</i>
THOMAS C. CAREY.....	Perrysville, O.
CHARLES K. LATHAM.....	Reeds Corners, N. Y.

Summary of Students.

DEPARTMENT OF SCIENCE, LITERATURE AND THE ARTS.

Resident Graduates.....	4	In Mining Engineering.....	2
Seniors	71	In Selected Studies.....	68
Juniors.....	65	In Higher Chemistry.....	24
Sophomores.....	81	In Pharmacy	36
Freshmen.....	112	Total in Department.....	466

DEPARTMENT OF MEDICINE AND SURGERY.

Students	588
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DEPARTMENT OF LAW.

Seniors	123	Juniors.....	180
Total in Department.....	308		
Total in the University.....	1112		

No name, in making out the above Summary, is counted more than once, and no names are inserted in the Catalogue of persons who have not actually been present as students since the beginning of the present College Year, except such as entered last year after the Catalogue was published.

INDEX.

ACADEMIC DEPARTMENT:	Page.	LAW DEPARTMENT:	Page.
Faculty.....	10	Faculty.....	35
Students.....	11	Students.....	33
Admission to.....	43	Admission to.....	66
Preparation Required for.....	46	Course of Instruction.....	66
Examiners for admission to.....	48	Library.....	67
Exercises, Tabular View of.....	48	Degrees.....	68
Conferring Degress.....	59	Books of Instruction.....	68
Studies of Higher Courses.....	60	General Remarks on.....	68
Calendar.....	78	Calendar.....	78
ADMISSION:		LIBRARY:	
To Classical Course.....	46	Lectures on Use of.....	71
To Scientific Courses.....	47	LOGIC:	
To Selected Studies.....	47	Lectures on.....	57
To Advanced Studies.....	48	MATERIA MEDICA:	
Expenses.....	76	Museum of.....	75
ADVANCED STANDING:		MATHEMATICS:	
Admission to.....	49	Preparation in.....	46, 47
ANATOMY:		Course of Instruction in.....	51
Lectures on.....	56	MEDICAL DEPARTMENT:	
Museum of.....	75	Faculty.....	24
ARCHITECTURE:		Students.....	25
Instruction in.....	56	Admission to.....	62
ASTRONOMICAL OBSERVATORY.....	72	Course of Instruction.....	62
ASTRONOMY:		Degrees.....	63
Course of Instruction in.....	52	General Observations on.....	63
AUSCULTATION, Instruction in.....	63	Calendar.....	78
BOTANY:		MICROSCOPY:	
Course of Instruction in.....	52	Instruction in.....	63
CALENDAR.....	78	MINES, SCHOOL OF.....	56
CHEMISTRY:		MODERN LANGUAGES:	
Course of Instruction in.....	53	Course of Instruction in.....	50
CLASSICAL COURSE:		MUSEUM:	
Admission to.....	46	Of Natural History.....	72
Course of Study, Tabular View.....	48	Of Anatomy & Materia Medica.....	75
COURSE OF STUDY.....	49	Of Fine Arts and History.....	71
DEGREES:		OBSEVATORY.....	71
Conferred during the year.....	6	PHARMACY:	
Remarks on.....	69	Course in.....	56
Studies for Higher.....	60	PHILOSOPHY:	
In Medical Department.....	63	Intellectual and Moral, Inst. In.....	57
In Law Department.....	62	PHYSICS:	
DISCIPLINE.....	58	Course of Instruction in.....	52
ENGINEERING, CIVIL:		POLITICAL ECONOMY:	
Course of Instruction in.....	55	Instruction in.....	57
ENGINEERING, MINING:		REGENTS, Board of.....	3
Course of Instruction in.....	56	RIETORIC, Instruction in.....	49
ENGINEERING, MECHANICAL.....	56	RULES OF THE UNIVERSITY.....	77
ENGLISH LITERATURE:		SCIENCE, LITERATURE & THE ARTS:	
Course of Instruction in.....	49	See Academic Department.	
ETHNOLOGY AND RELICS.....	74	SCIENTIFIC COURSES:	
EXPENSES.....	77	Admission to.....	47
FACULTIES:		Course of Study.....	49
Members of.....	4	Civil Engineering.....	54
Academic.....	10	School of Mines.....	55
Medical.....	24	SELECTED STUDIES:	
Law.....	35	Courses in.....	47
FINE ARTS, Museum of.....	74	STUDENTS:	
GEOLOGY:		In Academic Department.....	11
Course of Instruction in.....	52	In Medicine.....	25
GREEK LANGUAGE:		In Law.....	35
Preparatory Course in.....	47	Summary of.....	81
Course of Instruction in.....	50	UNIVERSITY:	
HISTORY:		Character of.....	44
Preparation Required in.....	46	General Rules.....	77
Course of Instruction in.....	50	Expenses.....	76
HOSPITAL.....	64	Lectures.....	70
LATIN LANGUAGE:		VISITORS, Board of.....	3
Preparatory Course in.....	47	ZOOLOGY:	
Course of Instruction in.....	50	Course of Instruction in.....	52

PROSPECTUS

OF THE

Michigan University Medical Journal.

ON THE FIRST OF MARCH, 1870, THE FIRST NO. OF A MONTHLY MEDICAL JOURNAL will be issued under the editorial direction of the FACULTY OF MEDICINE OF THE UNIVERSITY OF MICHIGAN

PUBLISHED BY R. A. BEAL,

Courier Steam Printing House, in the City of Ann Arbor, Mich.

The Faculty in the inauguration of this enterprise, while earnestly desiring by it to establish more intimate connections with the profession throughout the State and country, have been influenced in no small degree by a want long felt of a medium of communication between the large number of medical men in various States, now numbering several thousands, who have been students in the University, and who participate, it is believed, with their former Teachers in desiring the reestablishment and continuance of relations which have been so uniformly agreeable.

They have also been urged to the undertaking by the wishes of the Regents and other friends of the University, who have felt the necessity of some authentic means of furnishing the professional public with correct information of the condition of the Medical Department—of its entire freedom from irregular systems and practices, of its means of elementary and clinical instruction and the extent and thoroughness of its course; while they believe a field of general usefulness is still open for a reliable scientific and practical Medical Journal. While furnishing its readers with careful selections from, and well digested abstracts of the current medical literature of the day, both in this country and in Europe, the pages of the Journal will receive systematic contributions from the different members of its editorial corps, in original articles pertaining to their respective departments, in Clinical Lectures and Reports of Hospital and other clinical cases, and in various items of Scientific and practical interest.

While contributions are solicited and expected from the profession at large, particularly in this State, yet much dependence will be placed upon the Alumni of the University for original articles, and especially for accounts of diseases and other matters of professional importance in their different localities; and all appropriate questions from subscribers will receive such answers in the Journal as the editors may be able to give. In all its contents, original and selected, its readers will be furnished with the most advanced and reliable views on all subjects connected with the different departments of the profession. The reviews and notices of new publications, it is intended, shall be fairly and fully made after a careful examination by the member of the editorial corps to whose department the work more properly belongs; and commendations, when they are bestowed, not being after the stereotyped formula, will have weight with those who may have confidence in the opinions of the reviewers.

While expressing convictions of passing professional events and policies, the general tone of the Journal will be that of liberality, charity, and conciliation; particularly avoiding controversies tending to excite unpleasant feelings, and every term of unkindness and personality.

The *Michigan University Medical Journal* will be issued promptly on the first of every month, each number containing not less than sixty-four pages, clearly printed on good paper, thus furnishing not less than seven hundred and sixty-eight pages of matter, exclusive of advertisements each year; the subscription price for which will be *Three Dollars* in advance.

As it is expected that the Journal will reach a large number of physicians and pharmacutists in all parts of the country, and particularly in this State and the Northwest, its advantages as an *advertising medium* will be understood. The first number will consist of a large edition. Terms of advertising will be moderate, and can be learned by addressing the Publisher, R. A. Beal, to whom should be sent all communications on the financial business of the Journal. All other communications should be addressed "Editors Michigan University Medical Journal, Ann Arbor, Michigan."

